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AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACRINERY,

AND MINES.



ESTABLISHED 1831.



PUBLISHED WEEKLY, AT No. 105 CHESTNUT STREET, PHILADELPHIA, AT FIVE DOLLARS PER ANNUM.

SECOND QUARTO SERIES, VOL. III., No. 3)

SATURDAY, JANUARY 16, 1847.

[WHOLE No. 552, Vol. XX.

AMERICAN RAILROAD JOURNAL.

OFFICE AT THE FRANKLIN HOUSE, 105 Chestnut Street,

PHILADELPHIA, PA. This is the only periodical having a general circulation throughout the Union, in which all matters connected with public works can be brought to the notice of all persons in any way interested in these undertakings. Hence it offers peculiar advantages for advertising times of departure, rates of fare and p.m.
Be freight, improvements in machinery, materials, as iron, ber, stone, cement, etc. It is also the best medium for advertising contracts, and placing the merits of undertakings fairly before the public.

TERMS. - Five Dollars a year, in advance.

RATES OF ADVERTISING.

One page per annum	.\$125	00
One column "	. 50	00
One square "	. 15	00
One page per month	. 20	00
One column "		00
One square	. 2	50
One page, single insertion	. 8	00
One column " "	. 3	00
One square " "	. 1	00
Professional notices per annum.	. 5	O

Poston and Providence Railroad. Passenger Notice. Summer Arrangement. On and after Monday, Sept. 28, 1846, the Passenger Trains will run as follows:
For New York—Night Line, via Stonington.
Leaves Boston every day, but Sunday, at 5 p.m.
Accommodation Trains, leave Boston at 7 i a.m.
and 3 i p.m., and Providence at 8 a.m. and 3 i p.m.
Dedham trains, leave Boston at 9 a.m.; 3 p.m.,
5 i p.m., and 10 i p.m.
Leave Dedham at 8 a.m. and
4 ind 9 p.m.
Stoughton trains, leave Boston at 11 i a.m. and
4 ind p.m. Leave Stoughton at 8 a.m. and 2 i p.m.
All baggage at the risk of the owners thereof.
31 ly
W. RAYMOND LEE, Sup*L.
BRANCH RAILROAD and STAGES CON-

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180

5 p.m., and 10 p.m. Leave Dedham at 8 a.m. and 4 and 9 p.m.
Stoughton trains, leave Boston at 11 a.m. and 4 10 p.m. Leave Stoughton at 8 a.m. and 2 p.m.
All baggage at the risk of the owners thereof.
31 ly W. RAYMOND LEE, Sup't.
BRANCH RAILROAD and STAGES CONnecting with the Boston and Providence Railroad.
Stages connect with the Accommodation trains at the Foxboro' Station, to and from Woonsocket. At the Seekonk Station, to and from Woonsocket. At the Seekonk Station, to and from Lonsdale, R. I.

Yia Pawtucket. At the Sharon Station, to and from the Station, to and from Walpole, Mass. And at Dedham Village Station, to and from Medford, via Medway, Mass. At Providence, to and from Bristol, via Warren, R. I.

Tanntons at night.

Leave Columbus in the morning, arrive at Sandusky same day.

Leave Sandusky, by Boat, in the morning, arrive at Sandusky same day.

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BOSTON AND MAINE RAILROAD.
Upper Route, Boston to Portland via, Reading,

Andover, Haverhill, Exeter, Do-Andover, Haverhill, Exeter, Dover, Great Falls, South & North Berwick, Wells, Kennebunk and Saco.

Berwick, Weils, Kenneounk and Saco.

Winter Arrangement, 1846-7.

On and after October 5th, 1846, Passenger Trains will leave daily, (Sundays excepted,) as follows:

Boston for Portland at 71 a.m. and 21 p.m.

Boston for Great Falls at 71 a.m., 21 and 3-25

Boston for Haverhill at 74 and 114 a.m., 24, 3-25

and 5 p.m.

Boston for Reading at 74, and 114 a.m., 24, 3-25

5 and 61 p.m.
Portland for Boston at 71 a.m., and 3 p.m.
Great Falls for Boston at 61 and 91 a.m., and 44

Haverhill for Boston at 71, 81, and 11 a.m. and 3 and 6‡ p.m.

Reading for Boston at 7, 8‡ and 9‡ a.m., 12 m.,
1‡, 4 and 7‡ p.m.

The Depot in Boston is on Haymarket Square.

Passengers are not allowed to carry Baggage above \$50 in value, and that personal Baggage, unless notice is given, and an extra amount paid, at the rate of the price of a Ticket for every \$500 in additional value. additional value.

CHAS. MINOT, Super't. 1y31

THE BEST RAILROAD ROUTE TO THE Lake and Buffalo, from Cincinnati.

Take Cars to Xenia, 65
miles; take Stage to Mansfield, 88 miles; thence by Cars to Sandusky, 56 miles to the Lake; thence Steamboat to Buffalo, 230

miles to miles to miles and the cheapest across

Fare by this route, although the cheapest across the state, will be reduced in a short time, railroad lengthened, and speed increased.

Leave Cincinnati in the morning, arrive at Co-

lumbus at night. Leave Columbus in the morning, arrive at San

SUMMER ARRANGEMENT.—NEW YORK AND ERIE RAILROAD LINE, from April and ERIE RAILROAD LINE, from a lat until further notice, will are daily (Sundays excepted) between the city of New York and Middle Goshen, and intermediate places, as follows:

Leave New York at 7 A. M. and 4 P. M.

"Middletown at 6 A. M. and 5 P. M.

FARE REDUCED to \$1 25 to Middletown—way proportion. Breakfast, supper and berths can be he on the steamboat.

Leave New York at 5 P. M.

"Middletown at 12 M.

The names of the consignee and of the station where to be left, must be distinctly marked upon each article shipped. Freight not received after to A. Arely to J. V.

Apply to J. F. Clarkson, agent, at office corner of Duane and West sts. H. C. SEYMOUR, Sup't. March 25th, 1846.

Stages run daily from Middletown, on the arrival of the afternoon train, to Milford, Carbondale, Honesdale, Montrose, Towanda, Owego, and West; also to Monticello, Windsor, Binghamton, Ithaca, etc., etc. Agent on board.

NORWICH AND WORCESTER RAIL-Road. Summer Arrangement, commencing

Monday, April 6, 1846. Accommodation Trains, daily, except Sunday. Leave Norwich, at 6 a.m., and 41 p.m. Leave Worcester, at 10 a.m., and 41 p.m. p.m.

The morning Accommodation Trains fro Norwich, and from Worcester, connect with trains of the Boston, and Worcester and Wester railroads each way.

railroads each way.

The Evening Accommodation Train from Worcester connects with the 14 p.m. train from Boston.

New York Train via Long Island Railroad:
Leave Allyn's Point for Boston, about 1 p.m., daily, except Sunday.

Leave Worcester for New York, about 10 a.m., stopping at Webster, Danielsonville, and Norwich.

New York Train via Steamboat—Leave Norwich for Boston, every morning, except Monday, on the arrival of the stamboat from New York, stopping at Norwich and Danielsonville.

Leave Worcester for New York, mon the arrival

Leave Worcester for New York, upon the arrival of the train from Boston, at about 4‡ p.m., daily, except Sunday, stopping at Webster, Danielsonville and Norwich.

Freight Trains daily each way, except Sunday,— Special contracts will be made for cargoes, or large quanties of freight, on application to the superinten

paid in the Care. In J. W. STOWELL, Supt.

TROY RAILROADS. -IMPORTANT NO This road is new, and taid with the heaviest iron H rail. Trains will always be run on this road connecting at Greenbush each way with the trains to and from Boston and intermediate places, leaving Greenbush daily at 11 p.m. and 8 p.m., or on arrival of the trains from Boston; leave Troy at 71 a.m. and 41 p.m., or to connect with trains to Boston Trains also run hourly on this road between Troy and Albany. Running time between Greenbush and Troy, 15 minutes.

and Troy, 15 minutes.

TROY AND SCHENECTADY RAILROAD.

This road is laid its entire length with the heaviest H rail—which is not the fact with the mead from Albany. Trains will always be run on this road connecting each way, to and from Buffalo and intermediate places. Leave Troy for Buffalo at 7½ a.m., and 1 p.m. and 6½ p.m., or to connect with the trains for the west; leave Schenectady at 2½ a.m., 8½ a.m., ½ p.m. and 8½ p.m., or on arrival of the trains from Buffalo and intermediate places.

TROY AND SARATOGA RAILROAD. THE ONLY DIRECT ROUTE.

No change of passenger, baggage or other cars on this route. Cars leave Troy for Ballston, Saratoga Springs, Lake George and White Hall at 74 a.m., (arriving one hour in advance of the train from Albany,) and at 34 p.m. Returning, leave Saratoga at 9 a.m. and 34 p.m., (reaching Troy in time for the evening boats to New York.) Cars also leave Troy for the Burrough at 34 p.m. and 7 p.m., connecting with packet boats for the north. This takes passengers from New York and Boston to Montreal in 44 hours.

N.B. Travellers will find the routes through Troy most convenient and economical, and as expeditious as any other. The steamboats to and from New York land within a few steps of the railroad office, and passengers are taken up and landed by the dif-ferent railroad lines at the doors of principal hotels, thus saving all necessity for, and annoyance from, last drivers, enbmen, runners, etc.

Aug. 3, 1846.

BALTIMORE AND OHIO RAILROAD.
MAIN STEM, The Train carrying the
Great Western Mail leaves Baltimore every morning at 71 and Cumberland at 8 o'clock, passing Ellicott's Mills, Frederick, Harpers F'erry, Martinsburgh and Hancock, conneting daily each way with—the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry — with the various railroad and steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Cumberland and Wheeling and the fine Steamboats on the Monongahela Slack Water between Brownsville and Pittsburgh. Time of arrival at both Cumberland and Baltimore 51 P. M. Fare between those points \$7, and 4 cents per mile for less distances. Fare through to Wheeling \$11 and time about 36 hours, to Pittsburgh \$10, and time about 32 hours Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12. Extra train daily except Sundays from Baltimore to Frederick at 4 P. M., and from Frederick to Baltimore at 8 A. M.

WASHINGTON BRANCH.

WASHINGTON BRANCH.

Daily trains at 9 A. M. and 5 P. M. and 19 at night from Baltimore and at 6 A. M. and 51 P. M. from Washington, connecting daily with the lines North, South and West, at Baltimore, Washington and the fielay house. Fare \$1 60 through between Baltimore and Washington, in either direction, 4 cents per mile for intermediate distances.

THE SUBSCRIBER IS PREPARED TO A execute at the Trenton Iron Works, orders for Railroad Iron of any required pattern, and warranted equal in every respect in point of quality to the best American or imported Rails. Also on hand and made to order, Bar Iron, Braziers' and Wire Rods, etc., etc., PETER COOPER 17 Burling Slip, New York,

RAILROAD ROUTE FROM BUF-Commbus and Cincinnati,

Commbus and Cincinnati,

Comsville, Ky, St. Lear, Mo., Memphis, Tenn.,
Vicksburg, Natches, New Orleans, and all intermediate ports, will find a new, and the most expeditious and comfortable Route, by taking Steamboute at Buffalo, landing at Sandusky City, Ohio, dispute the comfortable at Buffalo, landing at Sandusky City, Ohio, dispute the composition of the composi at Buffalo, landing at Sandusky City, Clance.

From thence by Cars, over the Mansfield Railroad which is new and just opened flaid with heavy Iron, to Mansfield, distance.

Thence by Stage via Columbus to Kenia over gravel and Macadamized Road, (the best in the state,) in new coaches, distance.

Thence, over the Little Miami Railroad, from Kenia to Cincinnati distance. 56 from Xenia to Cincinnati, distance From Buffalo to Sandusky. 24 hours.
Leave Sandusky 5 a.m. to Columbus 14 "
From Columbus to Cincinnati 15 "
Or say 30 hours from Sandusky to Cincinnati over this route, including delays.

FARE. 28bin 36 00 TIME. Sandusky to Columbus...

through to Cincinnati... 8 00

Passengers should not omit to pay their fare through from Sandusky City to Cincinnati and take receipts availing themselves of the benefit of a contract existing between the said Railroad and Stage Co's, securing 121 miles travel by good Railroad and 88 miles by Stage, in crossing from Lake Erie to the Ohio ri-

ver, in the space of 30 hours.

Passengers destined for St. Louis, or any point below on the Mississippi, will save by taking this route, from 4 to 6 days time and travel, and nearly

half the expense, over the Chicago and Peoria route to the above places.

Fare by this route, although the cheapest, will in a short time be reduced, Railroad lengthened, and speed increased.

B. HIGGINSON, Sup't, etc. M. & S. C. R. R. Co.

Sandusky City, Ohio.

NEW YORK & HARLEM RAILROAD CO.—Winter Arrangement.

On and after Monday, November 23, 1846, the cars will run as follows: Leave 27th street for 42d street, Deaf and Dumb Institute, Yorkville, Harlem Morrianna, and Williams' Bridge, at 7 o'clock a.m. From City Hall for above named places, 2 p.m. [freight train,] 2 30 p.m. 5 p.m. to Morrisiania only.

Leave City Hall for Harlem, Morrisiania, Fordham and Williams' Bridge, at 7 45 a.m., and 10 45 a.m.; 1 15 p.m., 2 p.m. [freight train], 2 30 p.m. and 3 45 p.m.

3 45 p.m. Leave City Hall for Hunt's Bridge, Bronx, Tuc kahoe, Hart's Corners White Plains, Davis' Brook, Unionville and Pleasantville, [Pleasantville 4 miles from Sing Sing,] 7 45 and 40 45 a.m.; 1 15 p.m., 2 p.m. [freight train], and 3 45 p.m.

RETURNING Leave Pleasantville, at 8, 10, [freight train], and

Leave Pleasantville, at 8, 10, [freight train], and 11, a.m.; 1 30, and 4, p.m.

Leave White Plains, at 812, 10 30, [freight train] and 11 20 a.m.,; 1 50, and 4 20, p.m.

Leave Tuckahoe, 8 35, 10 55, [freight train,] and 11 35, a.m.; 2 05, and 4 35, p.m.

Leave Williams' Bridge at 7 45, 8 50 and 11 50 a.

m.; 2 20, 4, and 4 50 p.m. Leave Morrisiania 8 and 9 05 a.m.; 12 05, 2 35, 20, 5 05 and 6 p.m. Leave Yorkville, at 8 12 a.m.; 435 and 6 15 p.m

SUNDAY ARRANGEMENTS.

Leave City Hall for Pleasantville and intermediate places, at 7.45 a.m.; 1 15 and 3 p.m.

Leave Pleasantville for City Hall, at 8 a.m.; 11, and 3 15 p.m.

Leave City Hall for Williams' Bridge and intermediate and the control of the control

mediate places, 10 45 a.m.; 2 30 p.m. Leave Williams' Bridge for City Hall, at 8 50 and 11 50 a.m.; 1, 3 45 and 4 05 p.m. 1y49

BALTIMORE AND SUSQUEHANNA Railroad.—Reduction of Fare Afternoon Trains between Fare to York....

Trains leave Lexington for Frankfort daily, at 8 o'clock a.m., and 2 p.m.

Trains leave Frankfort for Lexington daily, at 8 o'clock a.m. and 2 p.m.

Distance, 28 miles. Fare \$1-25.

On Sunday but one train, 5 o'clock a.m. from Lexington, and 2 o'clock p.m. from Frankfort.

The winter arrangement (after 15th September to

The winter arrangement (after 15th September to 15th March) is 6 o'clock a.m. from Lexington, and ma. 9. from Frankfort, other hours as above.

SOUTH CAROLINA RAILROAD.—A
Passenger Train runs daily from Charleston,

on the arrival of the boats from Wilmington, N. C., in connection with trains on the Georgia, and Western and Atlantic Railroads—and by stage lines and steamers connects with the Montgomery and West Point, and the Tuscumbia Railroad in N. Alabama.

Fare through from Charleston to Montgomery daily.

portation of Passengers and Preight. Rates of Passengers and On weight goods generally... 50 cts, per hundred. On brls. wet (except molasses and oil)....

MANUFACTURE OF PATENT WIRE
Rope and Cables for Inclined Planes, Standing Ship Rigging, Mines, Cranes, Tillers etc., by
JOHN A. ROEBLING, Civil Engineer,
Pittsburgh, Pa.
These Ropes are in successful operation on the
planes of the Portage Railroad in Pennsylvania, on
the Public Slips, on Ferries and in Mines. The
first rope put upon Plane No. 3, Portage Railrord,
has now run 4 heasons, and is still in good condition.

ENTRAL AND MACON AND WEST-Railroads, Ga.—These Roads Western and Atlantic Railroad of the State of Georgia, form a continuous line from Savannah to Oothcaloga, Ga., of 371 miles, viz: On Weight Goods—Sugar, Cof-fee, Liquor, Bagging, Rope, Butter, Cheese, Tobacco, Leather, Hides, Cotton Yarns, Copper, Tin, Bar & Sheet Iron, Hollow Ware &

0 624

Baltimore.

RE , by

a. The rord, ondi-

Fare from Baltimore to Charleston.\$21 00 For Tickets, or further information, apply at the Southern Ticket Office, adjoining the Washington Railroad Office, Pratt street, Baltimore, to 1y14 STOCTON & FALLS, Agents.

RAILROAD SCALES.—THE ATTEN-tion of Railroad Companies is particularly re-quested to Ellicotts' Scales, made for weighing load-ed cars in trains, or singly, they have been the in-ventors, and the first to make platform scales in the United States; supposing that an experience of 20 years has given a knowledge and superior advan-tage in the business. ge in the busin

The levers of our scales are made of wrought iron, all the bearers and fulcrums are made of the best cast steel, laid on blocks of granite, extending across the pit, the upper part of the scale only being made of wood. E. Ellicott has made the largest Railroad Scale in the world, its extreme length was one hundred and twenty feet, dapable of weighing ten loaded cars at a single draft. It was put on the Mine Hill and Schulkill Haven Railroad.

Mine Hill and Schuylkill Haven Railroad.

We are prepared to make scales of any size to weigh from five pounds to two hundred tons.

BLLICOTT & ABBOTT.

Factory, 9th street, near Coates, cor. Melon st.

Office, No. 3 North 5th street,
Philadelphia, Pa.

GEORGIA BAILROAD: FROM AU-

AND WESTERN AND ATLANTIC BALEOAD PROM ATLANTA TO COTTLALOGA, 80 MILES.

This Road in connection with
the South Carolina Railroad and
Western and Atlantic Railroad now forms a continuous line, 388 miles in length, from Charleston
to Oothcaloga on the Oostenatia River, in Cass Co.,
Georgia Georgia.

RA	THE OF PREIGHT.	Between Augusta and Oothealoga.	Between Charleston and Oothenlogs.
	* 19 K. F. C. L.	250 miles.	396 miles.
	Boxes of Hats, Bonnets, and Furnature, per cu- bic foot	10 16	\$0.25
2d class,	Boxes and Bales of Dry Goods, Sadlery, Glass, Paints, Drugs and Con- fectionary, per 100 lbs.	12000	1 40
3d class.	Sugar, Goffee, Liquor, Bagging, Rope, Cotton Yarns, Tobacco, Lea- ther, Hides, Copper, Tin, Bar and Sheet		
4th class.	Iron, Hollow Ware, Castings, Crockery, etc. Flour, Rice, Bacon, Pork, Beef, Fish, Lard, Tal- low, Beeswax, Fea- thers, Ginseng, Mill Gearing, Pig Iron, and	0 55	0 75
	Grindstones, etc	0 374 0 45 8 50 2 00 0 17	0 621 0 65 13 50 3 25 95
	ters, Wheelbarrows.	0 75	1 37

German or other emigrants, in lots of 20 or more, will be carried over the above roads at 2 cents

per mile.
Goods consigned to S. C. Railroad Co. will be forwarded tree of commissions. Freight may be maid at Augusta, Atlanta, or Oothcalogs.

J. EDGAR THOMSON,

Ch. Eng. and Gen. Agent.

Augusta, Sept. 2d, 1846. *44 1y

THE WESTERN AND ATLANTIC Railroad.—This Road is now in operation to Oothcaloga, a distance of 80 miles, and connects daily (Sundays excepted) with the Georgia Rail-

road.

From Kingston, on this road, there is a tri-weekly line of stages, which leave on the arrival of the cars on Tnesday, Thursday and Saturday, for Warrenton, Huntsville, Decatur and Tuscumbia, Alabama, and Memphis, Tennessee.

On the same days, the stages leave Oothcaloga for Chattanooga, Jasper, Murfreesborough, Knoxville and Nashville, Tennessee.

This is the most expeditious route from the east to any of these places.

CHAS. F. M. GARNETT,

Atlanta, Georgia, April 16th, 1846;

TO RAILROAD COMPANIES AND MANufacturers of railroad Machinery. The subscribers have for sale Am. and English bar iron, of all
sizes; English blister, cast, shear and spring steel;
Juniata rods; car axles, made of double refined iron
sheet and boiler iron, cut to pattern; tiers for locomotive engines, and other railroad carriage wheels,
made from common and double refined B. O. iron;
the latter a very superior article. The tires are
made by Messrs. Baldwin & Whitney, locomotive
engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.

When the exact diameter of the wheel is stated in
the order, a fit to those wheels is guaranteed, saving
to the purchaser the expense of turning them out in
side. THOMAS & EDMUND GEORGE,
ad5

E. cor. 12th and Market sts., Philad., Pa.

Tyrian solidity for years.

For sale in lots to suit purchasers, in tight paperea barrels, by
JOHN W. LAWRENCE,
142 Front street, New York.

143 Front street, New York.

144 Front street, New York.

145 For sale in lots to suit purchasers, in tight paperea barrels, by
JOHN W. LAWRENCE,
142 Front street, New York.

143 Front street, New York.

144 Front street, New York.

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JOHN W. LAWRENCE,
142 Front street, New York.

143 Front street, New York.

144 Front street, New York.

145 Front street, New York.

145 Front street, New York.

146 Front street, New York.

147 Orders for the above will be received and promptly attended to at this office.

148 Front street, New York.

149 Front street, New York.

149 Front street, New York.

142 Front street, New York.

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145 Front street, New York.

142 Front street, New York.

143

LITTLE MIAMI RATLROAD.
TO SPRINGFIELD—Distance 8

connecting at Xinia and Spring-field with Mesars. Neil, Moore,

FARE—From Cincinnati to Lebanon \$1 00

" " Kenia 1 50

" " Springfield ... 2 00

" " Columbus ... 4 00

" Sundusky city 8 00

The Passenger trains runs in connection with Strader & Gorman's line of Mail Packets to Louis-

Tickets can be procured at the Broadway Hotel, Dennison House, or at the Depot of the Company,

Dennison House, or at the Depot of the Company, on East Front street.

Further information and through tickets for the Stage lines, may be procured at P. Campbell, Agent on Front street, near Broadway.

The company will not be responsible for baggage beyond 50 dollars in value, unless the same is returned to the conductor or agent, and freight paid at of a passage for every \$500 in value over that amount.

amount.

The 14 P. M. train from Cincinnati, and the 2 40 P. M. train from Xenia, will be discontinued on and after Monday, the 10th instant.

A freight train will run daily.

W. H. CLEMENT, Sup. 47tf

PHILADELPHIA, WILMINGTON & BALTIMORE RAILROAD .- 1847. Winter Arrangement.

Philadelphia for Baltimore...8 a.m. and 4 p.m. Baltimore for Philadelphia...9 a.m. and 8 p.m. Connecting in Baltimore with Mail Lines south and west, as per notice of the Baltimore and Ohio Railroad—and with Mail Lines north from Philadelphia, both morning and afternoon.

Sundays, the Morning Lines do not run in either direction.

Accommodation train from Wilmington to Phi-ladelphia, leaves Wilmington at 8 a.m., and returns at 2 p.m.

J. R. TRIMBLE, 2T Engineer and General Superintendent.

AWRENCE'S ROSENDALE HYDRA-ulic Cement. This cement is warranted equal to any manufactured in this country, and has been pronounced superior to Francis' "Roman." Its value for Aqueducts, Locks, Bridges, Flooms and all Masonry exposed to dampness, is well known, as it sets immediately under water, and increases in solidity for years. solidity for years.

TALUABLE PROPERTY ON THE MILL Dam for Sale. A lot of land on Gravelly coint, so called, on the Mill Dam, in Roxbury, conting on and east of Parker street, containing 6,497 square feet, with the following buildings screen standing.

Main brick building, 120 feet long, by 46 ft wide, we stories high. A machine shop, 47x43 feet, with trge engine, face, screw, and other lathes, suitable ode any kind of work.

Pattern shop, 35x39 fee, with lathes, work benches, Work shop, 86x35 feet, on the same floor with the attern shop.

Work shop, 86x35 feet, on the same floor with the pattern shop.

Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts, drums, pulleys, &c., large and small trip hammers, turnaces, forges, rolling mill, with large balance wheel and a large blowing apparatus for the foundry.

Foundry, at end of main brick building, 60x454 feet two stories high, with a shed part 454x20 feet, containing a large air furnace, cupola, crane and corn oven.

sorn oven.

Store house—a range of buildings for storage, etc.,
200) feet long by 20 wide:

Locomotive shop, adjoining main building, fronting on Parker street, 54x35 feet.

Also—A lot of land on the canal, west side o Parker st., containing 6000 feet, with the following buildings thereon standing:

Boiler house 50 feet long by 30 feet wide, two stories.

Blacksmith shop, 49 feet long by 20 feet wide.
Blacksmith shop, 49 feet long by 20 feet wide.
For terms, apply to HENRY ANDREWS, 48
State st., or to CURTIS, LEAVENS & CO., 106
State st., Boston, or to A. & G. RALSTON & Co.,
Panadelphia.

TO RAILROAD COMPANIES AND BUILD-ERS OF MARINE AND LOCOMOTIVE ENGINES AND BOILERS.

PASCAL IRON WORKS.

WELDED WROUGHT IRON TUBES

4 inches to i is calibre and 2 to 12 feet long, ole of sustaining pressure from 400 to 2500 lbs. square inch, with 8top Cocks, T-, i.-, and fixtures to suit, fitting together, with screw, obtained for BTEAM, WATER, GAS, and for DMOTIVE and other STEAM BOILER PLUE.



Manufactured and for sale by
MORRIS, TASKER & MORRIS.
archouse S. E. Corner of Third & Walnut Street
PHILADELPHIA.

ATENT INDESTRUCTIBLE WATER
Pipes. The subscribers continue to manufacture the above Pipes, of all the sizes and strength required for City or Country use, and would invite individuals or companies to examine its merits.—
This pipe, unlike cast iron and lead, imparts neither color, oxide or taste, being formed of strongly riveted sheet iron, and evenly lined on the inside with hydraulic cement. While in the process of laying, it has a thick covering externally of the same—thus forming nature's own conduit of stone. The iron being thoroughly enclosed on both sides with cement, precludes the possibility of rust or decay, and renders the pipe truly indestructible. The prices are less than those of iron or lead. We also manufacture Basons and D. Traps, for Water Closets, on a new principle, which we wish the public to examine at 112 Fulton street, New York. J. BALL & CO.

J. BALL & CO.

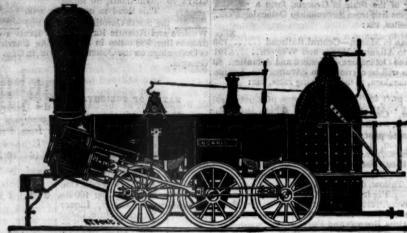
TO LOCOMOTIVE AND MARINE ENgine Boiler Builders. Pascal Iron Works,
Philadelphia. Welded Wrought Iron Flues, suitaole for Locomotives, Marine and other Steam Engine Boilers, from 2 to 5 inches in diameter. Also,
Pipes for Gas, Steam and other purposes; extra
strong Tube for Hydraulic Presses; Hollow Pistons for Pumps of Steam Engines, etc. Manufacturel and for sale by

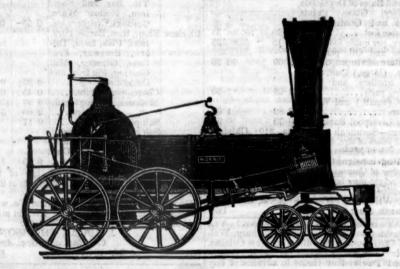
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14

LOCOMOTIVE

BUSH HILL, PHILADELPHIA, Pennsylvania.





MANUFACTURE their Patent 6Wheel Combined and 8 Wheel Locomotives of the following descriptions, viz:

Class	1,	15 inches	I	Diameter	of	Cylinder,	×	20	inches	Stroke.
"	2,	14	44	"		a di ampuest i		24	a	u
u	3,	144					X	20	. "	"
- 66	4.	121	- 66	"			×	20	- 66	"
66	5,	111	24	- 46			×	20		u
	6	101	- 66	66		- 11	V	18	11	- 66

With Wheels of any dimensions, with their Patent Arrangement for Variable Expansion. Castings of all kinds made to order: and they call attention to their Chilled W heels, for the Trucks of Locomotives, Tenders and Cars.

NORRIS, BROTHERS.

THE NEWCASTLE MANUFACTURING
Company continue to furnish at the Works,
situated in the town of Newcastle, Del., Locomotive
and other steam engines, Jack screws, Wrought iron
work and Brass and Iron castings, of all kinds connected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast wheels (chilled) of
any pattern and size, with Axles fitted, also with
wrought tires, Springs, Boxes and bolts for Cars;
Driving and other wheels for Locomotives.
The works being on an extensive scale, all orders

The works being on an extensive scale, all orders will be executed with promptness and despatch. Communications addressed to Mr. William H. Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY, a45

President of the Newcastle Manuf. Co.

RAILROAD IRON AND LOCOMOTIVE
Tyres imported to order and constantly on hand
A. & G. RALSTON
Mar. 2001
4 South Front St., Philadelphia.

THE NEWCASTLE MANUFACTURING KEARNEY FIRE BRICK. F. W. Company continue to furnish at the Works, Kearney, Manufacturer, Perth Amboy, N. J. Guaranteed equal to any, either domestic or foreign. Any shape or size made to order. Terms, 4 mos. from delivery of brick on board. Refer to

James P. Allaire,

James P. Allaire,
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Murdock, Leavirt & Co.
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N. E. Screw Co.
Eagle Screw Co.
Eagle Screw Co.
William Parker, Supt. Bost. and Worc. R. R.
New Jersey Malleable Iron Co., Newark N. J.
Gardiner, Harrison & Co. Newark, N. J.
25,000 to 30,000 made weekly.

From the United States Gazetta. e Central Railroad.

THOMAS P. COPE, ESQ.—Sir: The project of connecting the city of Philadelphia with her sister city of Pittsburg by railroad, being one of vast importance and of engrossing interest at this time, it becomes the duty of every one feeling an interest in the welfare of Philadelphia, to contribute all in his power to give confidence and success to the movement.

The project of a subscription of \$2,500,000 on the part of the city, has been productive of various conflicting views, of which the pub-lic prints have been the constant vehicles for some time past.

Many-and these I think compose the greatest number of persons opposed to a subscription on the part of the city-are appalled at the magnitude of the undertaking, and the supposed enormous expense involved in its

measure, and complete and speedy successively successive succe will pay.

the public eye, lest to some the project might It is true, that I have perhaps, assumed an appear chimerical. But as farther reflection extreme case—but one that would frequently of its utility, I have ventured to call attention not be so great between the increased width railroad.

to the matter.

I will offset these against the construction

for an elaborate investigation of the plan.matter is worthy of serious attention. The example of a railroad laid upon the banks of a canal is not wanting. We see an instance of it upon one of the banks of the Delaware and Raritan canal, which is occupied for railroad, will be hereafter spoken of. some miles by the railroad line from Phila- . But let us proceed cautiously. We will

from Harrisburg to Pittsburg for \$4,500,000, drains, and the like. Take a single instance. An embankment 30 feet in height, 15 feet in these estimates I have taken no notice that may offer, with certainty and despatch, then it will require no farther proof that it one and a half feet horizontal to one perpendent the land damages or "right of way" This is to be done by making available at top—in place of an increased width of but a certain extent the works already forming the line of communication on that route. It is to this subject I would call your attention in this communication. It is a matter that has engaged my thoughts for some time. - circumstances to the increased width, would While the subject was pending before the cost but one-twentieth, there being but five Legislature, and \while legislative action feet in length to construct instead of, say, 100. might have been had in the matter, I prepared an article on the subject of making the
present works available for the proposed railthe additional cost would be exactly in proportion to the increased width.

has but strengthened me in my convictions occur however-for the discrepancy would

Of course the materials are not sufficient was but five feet. But we see at least, that so to enlarge the cuttings and embankments Nothing but a careful investigation of all the of the canal, as to obtain a roadway of 15 feet, circumstances based upon instrumental exa- could never cost more than one-third of what minations of that portion of the public works proposed to be so used, can develope those.—

But meagre as are the materials, I think it the cuttings and embankments were but one will not be difficult at least, to show that the foot, this would be nearly the case—and va-

delphia to New York, via New Brunswick. therefore assume that the grading would cost.

The distance from Harrisburg to Holli-one-third of what would be the expense of an daysburg by the line of the canal, is 145 independent line, including viaducts, culverts, miles, and the lockage or rise in that distance etc., under the head of grading. This ration is about 620 feet—by other authorities less. of expense is particularly applicable, it is besupposed enormous expense involved in its completion; whence arises the conviction, or at least the apprehension, that the work will never pay. That while the burden of expense will be borne by the city, its advantages will be general—the districts for instance, participating equally in them.

The Councils may reasonably be supposed to hesitate between their duty to promote the that by the present line of improvements by a fair estimate, for all but the Alegheny Dispersion of the advance for any reduction of distance from at \$30,000 per mile, which is thought to be approached to hesitate between their duty to promote the that by the present line of improvements by a fair estimate, for all but the Alegheny Dispersion is about 620 feet—by other authorities less. This divided by the number of miles, gives included by the number of miles, gives in the aqueducts (of which there are 49 upon the two divisions of the approaches it termination at Hollidaysburg, being something like 450 feet in the last upon a second story, as is the case with the general—the districts for instance, participating equally in them.

The Councils may reasonably be supposed to hesitate between their duty to promote the that by the present line of improvements by a fair extension of expense is particularly applicable, it is believed, to adapting the aqueducts (of which the promote its promote its promote and a half feet per mile, average. I have made no all the promote and the promote its promote and the promote an to hesitate between their duty to promote the that by the present line of improvements, by a fair estimate, for all but the Allegheny Di"trade and welfare" of the city, and a just occasional deviations from the canal, where regard for the number and respectability of those who hold these opinions. This being ular, on which account I might fairly have age cost of well constructed railronds in this also the view, doubtless, of many capitalists deducted several miles. All who have transmitted many representations and moneyed men, having reference to a supposed cost of from \$8,000,000 to \$10,000, a consequent apathy may be expected walk of three-fourths of a mile over a ridge water stations, etc., we have \$27,000 per walk of three-fourths of a mile over a ridge water stations, etc., we have \$27,000 per mile for the walk of three-fourths of a mile over a ridge water stations, etc., we have \$27,000 per mile for the walk of three-fourths of a mile over a ridge water stations, etc., we have \$27,000 per mile for the walk of three-fourths of a mile over a ridge water stations, etc., we have \$27,000 per mile for the walk of three-fourths of a mile over a ridge water stations, etc., we have \$27,000 per mile for the walk of three-fourths of a mile over a ridge. 000, a consequent apathy may be expected walk of three-fourths of a mile over a ridge water stations, etc., we have \$27,000 per in coming forward to subscribe for the stock, or spur, cuts off a detour by the canal of three mile for the construction of the road proper. especially if the number of those—and we know they will be numerous—who come forward through patriotic motives, should be road upon or the other bank of the canal, as road we have \$19,000 per mile left for gradunequal to the task.

We know there is abundant capital in Philadelphia; and if it can be shown that it will be a paying concern, patriotism will at conce be stimulated in others, a great number of those who oppose the city subscription. ber of those who oppose the city subscription, would doubtless become reconciled to the quire to be lengthened to correspond—that measure, and complete and speedy success is, five feet. ments, and we have \$17,333 per mile, total expense. The distance from Harrisburg to Holidaysburg being 145 miles, we have as total cost of this link in the chain, £2,513,205.

one and a half feet horizontal to one perpentiant the land damages or "right of way" dicular, would be 105 feet at bottom, 15 feet amounting in England—I state it as a cubeen extinguished by the state, for the pur-poses of the canal. Under other circumstances, this item, including fencing, could not be put at less than \$1500 per mile. Neither have I taken any notice of the fact that there would be little or no clearing and grubbing, usually amounting from \$300 to \$500 per

I might also urge the facilities which the canal would afford in the construction of the

extending from Johnstown to Pittsburg, since the would appear, that by deviating consideration by from the line of the canal the distance that as an equivalent for this, we have lighting railroad. If we compare this capacity for business with the amount done on the principal freighting and will endeavor to show at all events, and will endeavor to show at all events, that by adhering to it, a railroad communication which the Portage railroad can accommon date. Not having by me any information of tween Boston and Albany, for instance, which the proposed to the control of tween Boston and Albany, for instance, which the proposed to the control of the canal the Grant appears to the Read
If we compare this capacity for business with the amount done on the principal freighting railroad can accommon date. Not having by me any information of tween Boston and Albany, for instance, which the proposed to constant a proposed to the canal the determinance of the Read
If we compare this capacity for business with the amount done on the principal freighting railroad and will endeavor to show at all events, that by adhering to it, a railroad communication of the control of the canal the distance in the Read
Now let us look at the amount of business which the Portage railroad can accommon that by adhering to it, a railroad communication of the control of the read
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Now let us l tion may be had with Pittsburg at a very a sate date, I am compelled to consult a resmall cost—making the Portage railroad also port made in 1838, in which this matter is Under these circumstances, why should a link in the chain, as before mentioned.— alluded to. It is to be presumed that its cannot the Portage become a link in the chain?

And here I will take occasion to say in and a nail tous each, may ascend together; to the appropation this part of the pian will regard to both divisions of the canal, that the that an equal number may be let down at lockages usually occur singly—the locks being seldom nearer each other than from a these trips may be made per hour. Four provement—the passage of the Allegheny third to a half a mile. If we assume a maximum and a half tons each, that we are the passage of the Allegheny mountain, that "so affirights men's soults."—

The pian will take occasion to say in and a nail tous each, may ascend together; to the appropation this part of the pian will meet with, under the state of facts I have shown to exist. It is this portion of the improvement—the passage of the Allegheny mountain, that "so affirights men's soults."

The pian will take occasion to say in and a nail tous each, may ascend together; to the appropriate with, under the state of facts I have shown to exist. It is this portion of the improvement—the passage of the Allegheny mountain, that "so affirights men's soults."

The pian will take occasion to say in the passage of the pian will be appropriate to the same time, and that from six to ten of the same time, and that from six to ten of the pian will be appropriately appropriate to the pian will be appropriately appropriate to the pian will be appropriately appropr imum grade of 45 feet per mile, and put down gives 20 tons per trip. Now assuming the Let it be known that the Portage railroad can the average rise at each lock at eight feet, smallest number of trips per hour, viz: six, be safely made available for this purpose, and then we would require a plane of but one- we have 120 tons as the business which may much of the difficulty vanishes. sixth of a mile at each lock to overcome the pass a given point in one hour; and 1440 as ascent; and the balance would be upon the a day's work, or 864,000 tons, working the present level grade on the towing path. And road day and night as 14 miles at 45 feet per mile, will overcome the whole ascent between Harrisburg Canal Commissione and Hollidaysburg, and as 11 miles at 45 feet per mile will overcome the whole ascent from which it will be seen that I have underrated, Pittsburg to Johnstown, it follows, that with rather than overrated, the capacity of the Porthe exception of these 25 miles, the whole remainder, consisting of 224 miles, might be upon a dead level. This is an answer to any objections, that might arise to the short curvatures occasionally occurring on the canal, as they could be made to fall upon level grades. Besides, the Columbia railroad prebia and Pittsburg, the capacity of the planes pointed out and defined. sents instances of as sharp curves as occur upon the canal, if I mistake not, viz: a radius,

The distance from Johnstown to Pittsburg being 104 miles, as before stated, at \$17,338 per mile, gives us the sum of \$1,802,632, terests and the public at large to state, that which add to \$2,513,295, and we have \$4, the maximum of that limit is very far from 315,927, as the cost of the whole improve being attained. The length of the longest ment, including cars, locomotives, depots, etc. plane is about 3000 feet; the time occupied provided we make use of the Portage railroad, at least for some years. Now let us see why this may not be done.

The Portage railroad is 37 miles in length. The rise from Hollidaysburg to the summit, is 1398 feet, distance 10 miles; and the descent from the summit to Johnstown, is 1171 feet, distance 27 miles. This trip is performfeet, distance 27 miles. This trip is performed in about four hours, or at the average speed of about nine miles per hour, which is six miles less per hour than the ordinary speed of passenger trains upon the railronds of this country. Now it might well be questioned, whether, if the 2569 feet of rise and fall between Hollidaysburg and Johnstown, number down the longest plane in each hour, following deduction (in part) from the pre-

of the horse or towing path, at such points at 66 feet per mile—being the grade which making 288 cars in the day of 12 hours, or as would require it. On embankments this the Baltimore and Ohio railroad will have 576 in one direction in 24 hours; this can would be unnecessary, as it is already pro- for about that number of miles, if ever com- be accomplished by using the road day and as would require it. On embankments this the Baltimore and Ohio railroad with have orom one of the road day and would be unnecessary, as it is already provided in the "heel path."

I do not know whether the same plan is applicable to the western division of the canal, especially to its freighting business, as in its road," viz: 1,036,800 per annum, which approaches the immense tonnage of the Read-

Since writing the above, the report of the Canal Commissioners for 1836 has met my

tage railroad.

"The Portage railway, however compliought to be equal to that of the canal locks, the latter, we know, have never had a deof 350 feet. There are curves of 822 feet mand upon them equal to one-fifth of their radius, which occupy 12 miles in length of capacity on those divisions. Many suppose that work. that their full capacity is nearly reached.

"It is however due to our commercial inplane is about 3000 feet; the time occupied in moving up or down it, is five minutes, the time occupied in attaching is two and a 000, or \$54,000 per mile; from this may be cars, carrying three tons each, making 24 cars, or 72 tons per hour each way," which is equal to 518,400 tons per annum.

"It will be observed by the report of the

a link in the chain, as before mentioned.— alluded to. It is to be presumed that its cannot the Portage become a link in the chain? From Johnstown to Pittsburg the distance by pabilities have not diminished since that pessione we find that it can do all that is required. the canal is 104 miles, and the lockage, or riod—on the contrary we know, that within ed of it, and save a heavy outlay that might descent, 471 feet, or four and one-half feet per the last few years, great improvements have jeopard the undertaking. Should the project mile average, the descent of course being been made in the working of inclined planes, of using the canal banks not meet with the more rapid near Johnstown, but still such as both as regards its speed and safety. In this favor I anticipate for it, from any cause, I to admit of extremely easy grades. And here I will take occasion to say in and a half tons each, may ascend together; to the approbation this part of the plan will

It is not to be presumed there would be any difficulty in effecting the amendments in the charter which this plan, or any portion of it, might make necessary; when we consider the revenue that would flow into the treasury eye, from which I extract the following, by by its adoption. Indeed, if the route by the which it will be seen that I have underrated, Juniata should be adopted, it may be worth considering, whether that instrument will not require some amendment, at all events as the railroad will doubtless require to cross cated in its operations, is, nevertheless, ade and re-cross the canal frequently, and often quate to the transaction of a vast amount of run parallel and near to it-to prevent colli-

> As to the expense of working and maintaining the Portage railroad, it appears from the report of the Canal Commissioners, that for the year ending December 1st, 1844, the motive power, trucks, and maintenance of way of the Portage railroad, cost \$135,000; and that the same distance on the Columbia road cost for the same purposes, \$90,187, or but about one-third less.

The following additional statistics of the

half minutes, making seven and a half min-inferred the cost of constructing a railroad utes, or eight drafts per hour of three loaded through this region with easy grades, and without the facility of adapting itself, like that work, to the inequalities of the ground. There are upon the line four viaducts, one of which is 70 feet high, and cost \$54,000; one tunnel

\$600,000 900,000 1,200,000 Deduct 50 per cent. for expenses... \$600,000

Which is equal to over 13 per cent. on the

capital.

The following, which has just come under my notice, as it appears pertinent to the sub-ject, I append. It may be well to add, that the work spoken of is now progressing. "I will also remark that the idea of so appropriating the banks of the canal, was suggested by your correspondent in an article published ited means of the company prevented its adop-

tion at that time."
"The New Haven and Northampton canal company have had it in contemplation for some time, and are now concerting measures for an increase of capital to enable them to lay down a railroad on their towing path from New Haven to Westfield and Northampton, 80 miles, and thus bring the travel and transroad. The whole length being already graded with the exception of some slight additions about the locks, with the advantage of a canal to transport all the materials for the superstructure, it has been ascertained that the whole can be done with the heaviest T indebtedness of the Company, has grade is but 45 feet to the mile. With the paid armicularly and many have paid up in full. rail for about \$7000 per mile—say \$560,000 been paid semi-annually, agreeably to the road now in use from Otisville, (the present for 80 miles! Then it will be tested which road can best afford to carry for low fare, the with the views set forth in the address of the miles, the Stockholders are doubtless geneone that costs only \$560,000, or the one that Directors, at the time of opening the Books rally familiar. has cost, or will cost, when completed, one for subscription on the 1st September, 1845. or two millions of dollars! Many persons it has been paid out of the net earnings of has been obtained for this great work than now express their surprise that the canal the road, leaving a surplus to carry to next its most sanguine friends ever anticipated, company, or the New Haven people, did not year's interest account. sooner avail themselves of the already graded banks of the canal for this purpose."

New York and Erie Railroad.

We have received the following call upon, and statement to, the shareholders of this road. In givunder contract on very favorable terms, and from the free expression of our opinion of the efforts and deserts of the directors and officers of this company. Coming into this place, and the management of its affairs, as they did, when its sun of prosperity was under an almost total eclipse, and bringing it, as they have, into a state of prosperity and active progression, they merit—and if the people of New York, and the Southern tier of counties, and much below the Engineer's estimate, and will be finished during the ensuing year. The contractors are now at work on the heaviest and most difficult parts of the line, portant work; it will be found in the important work; it will b ing place to this communication, we cannot refrain in a just estimation of their labors.

It is no new thing for us to say that, to the city of New York, it would be true economy—could it not from date,

mises I have taken. If we call the invest ment in round numbers \$4,500,000; and if perty of the city—rather than not to have it done; for the whole distance to the place last we assume a number equal to 150,000 thrown passengers, at \$4; and 150,000 tons of freight at \$6, to say nothing of mail service, etc., we have the following items:

"A contract for all the iron raits required but, by the energy and perseverance of those who named, has also been made on very advandable, to say nothing of mail service, etc., we have the following items:

"The Stockholders having been heretoinspired in the minds of those who are to be benefitted by its early completion, and reduced to the reasons which have defitted by its early completion, and reduced to the reasons which have defitted by its early completion, and reduced to the reasons which have defitted by its early completion, and reduced to the reasons which have defitted by its early completion, and reduced to the reasons which have defitted by its early completion, and reduced to the reasons which have defitted by its early completion. fitted by its early completion; and we desire again to bear our testimony warmly in favor of, and to it may suffice at this time to state that the cheer on, those who deserve so much from their whole line from Otisville to Binghamton, a fellow citizens. The call referred to is as follows, distance of 140 miles, was for a long time and we trust it will meet with a prompt response under the control of the Commissioners, until from all to whom it is addressed.

"The Stockholders of the New York and route to Lake Erie, they have settled a very Erie Railroad Company are hereby notified important question which has embarrassed that an instalment of ten dollars per share on the company for years, all shares on which the payments already "By this decision a made do not exceed twenty-five dollars, is re-quired to be paid at the office of the company. No, 45 Wall street, on or before the 12th day prove the grade beyond Binghamton, at the of January, 1847.

By order of the Board of Directors. NATHANIEL MARSH, Secretary.

" N. B .- Subscribers at or near Newin the Railroad Journal five years since, with burgh, are requested to make payments to details of the plan and estimates; but the lim- Thomas C. Ring, Esq., Cashier of the Powell Bank.

> "The above is a copy of a call for a further instalment of ten per cent. And in making this call, the Board of Directors have considered it due to the Stockholders that they should be kept fully advised of the ing five feet to the mile, except af one point condition and prospects of the Company, and where an ascending grade of 60 feet to the to that end submit the following :-

has been paid on an amount beyond 3,000,-

I am, with great respect, your obedient distance is Loke Erie, (viz: from Middle be measured by millions of dollars who town to Otisville.) was added to Middle be measured by millions of dollars who town to Otisville. town to Otisville,) was added to the main business line in the month of October last. The account. grading from that point to Binghamton, a distance of over 140 miles, has been put compensate the people of the Southwestern under contract on very favorable terms, and those also of our own city, for

layed a more rapid procecution of the work by their recent decision in favor of the best

"By this decision a most favorable line prove the grade beyond Binghamton, at the few points where it is required, which is considered by the Engineers perfectly practicable, and at very little expense; when the grade or line will stand thus - From Dunkirk on Lake Erie, coming east towards the Hudson River, for the first 14 miles, the maximum grade will not exceed 60 feet to the mile; -from that point to Hornellsville, a distance of 116 miles, the grade will not exceed 30 feet to the mile;—from Hornells-ville to Port Jervis, 250 miles, the whole distance is level, descending, or not exceedmile is met with for a distance of 8 miles, portation of the populous and thriving valley of the Connecticut to New York, by way of New Haven, using both the canal and railextra or assisting engine, with which assist-

"Thus it will be seen that a better grade the value and importance of which to this

"It is further believed that if anything can

and the West can appreciate a generous devotion to to be able to extend the road to Hornelle- scriptions, believing that the net earnings of the public interest—they will receive rich rewards wille, nearly simultaneously with its com- the road would provide for such payment, pletion to Binghamton, or at the farthest, by leaving the subject of paying interest on the the lat January, 1840 or within two years old stock an open question. Since which from date,

and much dissatisfaction expressed at the Directors declining to pay interest on the old stock. The consideration of the question dence of a lively interest being exhibited in that the date of completion of the road to Bing-hamton, and upon the same principle, that it was determined to pay interest on the new subscriptions, viz: out of the net earnings of the road, believing that when the road shall nation, it is believed their decision would meet the approbation of every Stockholder in the Company.

"The earnings of the road are steadily and permanently increasing, and every additional portion added to the main line, lesthat of all the Northern tier of Counties of Pennsylvania, extending on a line parallel series of resolution were proposed and adopted—with the road, a distance of nearly 400 miles, from which we call the following as specimens: and which, by their position, will necessarily be dependent on this road for a communication with this city, and without taking into account the business of the rapidly extending West, with its great inland seas, it is difficult to conceive with an outspread map before us, of any portion of our country through which a railroad could be constructed which would draw to it the trade of such an extensive and valuable portion of the country, and so abundant in resources and substantial wealth.

"It may not be improper here to add, that from the time the present Board of Directors assumed the control of this work, they have disincumbered it of a vast amount of difficulties and embarrassments, and placed it in a condition to deserve, as they believe, the en-tire confidence of the Stockholders and the public; and when it is further considered (and it will bear repetition), that in addition to the great natural advantages of this work, is added the release of the State lien of \$3,-000,000, and the reduction of the old stock to half its par value, thus forming a bonus of more than thirty per cent. on all the stock of the Company, it is doubtless safe to state that no railroad stock of our country ever presented, or will be likely hereafter to present, greater inducements for a safe and permanent investment.

"By order of the Board of Directors, NATHANIEL MARSH, Secretary."

New York, January, 1847.

The Railroad Interest in Maine

The accounts from the state of Maine, give evihaving been postponed as long as a proper quarter, in regard to railroads. The citizens of and the farmer, as well as the capitalist.

Bath, Augusta, Gardiner, Hallowell, etc., are up and prudent regard for the true interests of the company would permit, the subject was and doing—and the prospect is, that important rescently taken up by the Board, and after a very full and careful examination, it was determined to pay interest on the old stock from the date of completion of the road to Bing. ing of the citizens of Hallowell, Augusta and Gardiner, was held at the town hall in the first named town, on Saturday last, for the purpose of taking more active and energetic measures in regard to the be extended to that point, that the net earnings will provide for the interest on both classes of stock; in which case they consider they would have no right to withhold it. If they would have no right to withhold it. If the limits assigned to this circular would the limits assigned to this circular would meeting were Rev., J. W. Bardbury, Hon. Reuel Williams, Hon. David Bronson, and Rev. W. A. Williams, Hon. David Bronson, and Rev. W. A. and R. H. Gardiner, and Park Sheldon, Esq., of Gardiner. A degree of zeal, spirit, unanimity and enthusiasm was exhibited, such as has never before been witnessed among us, and on all hands there was felt to be an absolute necessity of adopting the most vigorous measures, and that-immediately !sens the active competition between it and Mr. Otis, one of the directors of the railroad, rethe Hudson river, from which, as it will be ported that the aggregate subscriptions for the road, seen by reference to the map, it very gradunow on the books, amounted to \$478,000—and that, ally diverges from its commencement at in all probability, the amount would soon be raised Piermont to Middletown; but from which to \$800,000. The following strong resolutions were latter point westward, there will be little or passed. It will be seen by the last particularly that no competition for the trade of the South- the people are wide awake for the enterprize, and are western Counties of our own State, and also determined that its prosecution shall lag no longer.

This is managing matters in the right spirit. A

Resolved, That the time has arrived when the pub-lic interest demands the opening of a grand channel of railroad communication, connecting the valleys of of railroad communication, connecting the valleys of the Kennebec and the Penobscot with Portland and Boston; and that it is the sense of this meeting that such road should pass through Brunswick, Gardiner, Hallowell, and Augusta, to such point on the Kennebec river, in Waterville or Fairfield, as shall best

nebec river, in Waterville or Fairfield, as shall best secure the public accommodation, and the facilities of crossing the Kennebec in its extension to Bangor. Resolved, That we regard this road as the commencement of a system of railroads, running far up the valley of the Kennebec, and connecting with Bangor, branching off at various points, so as to accommodate every part of the interiors of the counties of Kennebec, Franklin, Somerset and Penobscot, developing the resources, and increasing the wealth of the country through which it shall pass.

Resolved, That the subscriptions already obtained to the Kennebec and Portland railroad, together with the sums pledged to be taken and in a short time to be realized, do, in the opinion of this meeting, fully authorize the directors to take immediate steps to put the whole line under contract to Augusta, with the branch to Bath.

Resolved, That the towns of Augusta, Hallowell,

Resolved, That the towns of Augusta, Hallowell, Gardiner, Bath, and Brunswick, have the ability to invest at least \$800,000 in the road, and that the interests of those towns imperiously demand that it be

Railroad meetings appear to be the order of the day in every direction, in that region, and the disposition appears to be to push matters on with vigor. \$5000 have been taken by individuals in the two villages of Skowhegan and Bloomfield.

The residents along the proposed routes from Portland, eastward, are actively engaged in pressing the early as the first of November next.

subject upon the people generally, and we are py to see that it has excited a deep interest a all classes there—the merchant, the manufa-

Welfe Island, Kingston, and Teronto Railroad.

The Kingston (U. C.) Gazette says, " it will be remembered that a few months ago, our talent and respected fellow townsman, Charles Stuart, Esq., proceeded to England on behalf of the acting committee of the Wolfe Island, Kingston, and Toronto railroad company, for the purpose of taking up a portion of the stock in London, and also with a view of urging upon the Government the neces sity of giving without loss of time the royal ass to the Provincial Act incorporating the said com-pany. About the 20th of October last, Mr. Stuart had an interview with Lord Grey, the colonial secretary on the subject, when he strongly urged upon him the propriety of the royal assent being given as soon as possible, and though his Lordship then seemed to throw various obstacles in the way, yet it is now gratifying to find by the Official Gazette of Saturday, that our bill with all the others passed last session, have received the royal assent; -we make the following extract from the proclamation in the Gazette :-

make the following extract from the proclamation in the Gazette:—

Now Know Ye, that the aforesaid Bills, respectively intitled, "An Act to incorporate a Company to extend the Great Western Railroad from Hamilton to Toronto," "An Act to amend an Act passed in the tighth year of Her Majesty's Reign, instituted, An Act co amend an Act passed in the sixth year of the Reign of His late Majesty King William the Fourth, intitled, An Act to incorporate the City of Toronto and Lake Huron Railroad Company," An Act for erecting a suspension Bridge over the Niagara River at or near the Falls of Niagara," "An Act to restore the rights of certain persons altainted for High Treason," "An Act oi incorporate the Wolfe Island, Kingston and Toronto Railroad Company," "An Act to incorporate the Petersboro' and Port Hope Railway Company," "An Act to incorporate the Montreal and Kingston Railroad Company," having been laid before Us in Council, on the Thirtieth day of October, now last past, we have been pleased to ascent to each and every of the same; and we do by these presents and according to the provisions of the said Act of Parliament of the United Kingdom of Great Britain and Ireland, passed in the third and fourth years of our reign, assent to each and every of the aforesaid respective bills; of all which our loving subjects, and all others whom these presents may concern, are hereby required to take notice, and to govern themselves accordingly.

Northern Railroad.

A section of this important road was opened last reek, from Concord to Franklin, N. H. Thence, it is to proceed north westerly to Lebanon, near the mouth of White river in Vermont, where the parties have already agreed that it shall connect with the Vermont Central. At the festival on the opening, Mr. C. T. Russell, one of the Directors, made the following statements on the aspects of the enter-

To-day, he said, we had seen 19 of the 68 miles completed. The part completed had cost \$25,000 per mile. Forty-nine miles remained to be done, all of which was under contract, including the bridge over the Connecticut at the mouth of White river. Two-thirds of the grading had been completed, need-The Skowhegan Press says that subscription papers ing only the dressing to be ready for rails. A section are in circulation, for subscribers to the stock in the of the road immediately beyond Franklin would be Waterville and Lewiston road, and something like opened in the spring. The principal difficulty was the removal of 28,000 cubic yards of rock at Orange, the summit, which would be completed in August, and the whole road would be traversed by cars as

PRINCIPAL CONTENTS.

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AMERICAN RAILROAD JOURNAL.

Published by D. K. MINOR, 105 Chestnut St., Philadelphia

Saturday, January 16, 1847.

We ask the attention of our readers to the following notice:

NOTICE TO RAILROAD CONTRACTORS. Proposals will be received by the Subscriber, at the Grading the first thirteen miles of the Extension of westward; said thirteen miles contains about four and Specifications will be ready for examination at the office of the subscriber after February 1st.

J. W. BROOKS, Supt. & Eng. Detroit, January 5, 1847. 5t3

Index to the Last Volume.

This useful and necessary appendage to the Journal, for last year, will be ready in a short time and forwarded to each subscriber.

Table of American Railroads.

The difficulty of completing this interesting document, has been such as to delay it much longer than the earliest possible period, and forwarded with the English steamers that touch at that point on their must always go.

Railroad Iron.

In accordance with our suggestion a short time since, in the Journal, a bar of railroad iron from the new mill of Messrs, Reeve, Buck & Co., Phoenixville, has been deposited at our office, in the FRANK-LIN House, for the inspection of those who are interthe m rail, eighteen feet long, weighing sixty pounds to the yard. There is also the fag-end of a bar, brohen to show the quality of the iron, which is pro-

Phoenixville, Pa.

cotton mill of considerable extent. But that which on the cost of construction, including the stock given said highways and town-ways with the road upon a is most interesting to the visiter is the manufacture to the patentees. This makes the net income on the level. The corporation, however, must constru of iron, from the raw material, into the various actual outlay for the road 24 per cent. "despite all the Town Neck lane, a safe passage way, 15 feet. shapes in which it is placed in the market. Here the delays and accidents incident to a new inventhe ore, with the coal and the lime-stone, is placed tion." It is proposed to finish the line to New Or-tle to go to Town Neck in the furnace and run into "pigs." Thence it is leans in four months. carried to the puddling furnace, again heated, and after "bringing it to nature," is "balled," squeezed into shape, rolled into bars, cut, piled, re-heated and of the expenses and the profits of their line. They cost only \$50, carries a heavy train up a steep ascent, rolled into railroad bars; or, into merchant bars, or judge that by constant operation during the 24 hours through snow drifts eight and nine feet deep.

sheets, from which about 1000 kegs of nails are each day, it would earn at the rate of two dollars for manufactured and packed every week. The man-each fifteen words, superscription, etc., \$1,440, our ufacture of rails is, however, the most important, \$449,280 in a year. The gross expenses are estiand when we take into consideration the extent of mated at \$63,000 for the year, and the cost of conthe works, the quantity and expense of the ma-struction \$300,000. chinery, with the number of workmen, and the skill and labor required, we think the proprietors enverance. In the entire establishment about 500 one of the important interests of the state.

The Prospect.
At the last accounts, there needed the subscription of but a few hundred shares to the capital stock of nati to Pittsburg, to Lake Erie, to Louisville, to St. the Pennsylvania railroad, to obtain the charter,-The citizens of Philadelphia have evinced their confidence in this great work, by coming forward and all despatch. It seems from this conveyance that subscribing generously to the stock, and the result will show that the people in this vicinity have not lost sight of the important advantages which attach to this project. We are among those who feel confident that this line of railroad must prove very prooffice of the Michigan Central Railroad Company, fitable as an investment—and we cannot but believe at Detroit, until the 16th day of February next, for that this route will bring to the city of Philadelphia, an immense amount of additional trade from the the Michigan Central Railroad, from Kalamazoo, interior, as well as the west, which is now drawn from it, by other main channels of conveyance from hundred thousand cubic yards of earth work. Plans Ohio, etc., to our Atlantic borders. Let the work go and let us have a good road, well constructed and well appointed-and but a few years will elapse before the city of Philadelphia will feel the influence of its establishment, as Boston has, since the completion of the Great Western road.

Magnetic Telegraph.

very common means of correspondence and com- grading will ensure cheap fares and large profi munication all over the country. The board of This is all which can be desired either by the sign trade of Montreal have taken the subject in hand, holders or the community. The above mentioned and will petition government to erect one from Mon-road passes through a valley of extraordinary natu way to Boston. In that case we should get the first intelligence from Europe by way of Canada.

ready one from Buffalo to Toronto.

which it is to be carried.

The Baltimore Sun states that books are open in ill and Reading railroad, about 25 miles from this line from Washington City to New Orleans, via which the Cape Cod Branch railroad will cross

We saw and conversed with Mr. Eliphalet Case, Jr., a few days ago, who is interested in the line fro titled to much credit for their enterprize and perse-Pittsburg to Cincinnati. From him we fearn that the best prospects promise, in relation to the esta men are employed, and when we add the colliers, blishment of the telegraph, upon that line-and we the miners, and the carriers, we think the "indus-now learn from the Cincinnati Gazette, of a late trial classes" will look upon the iron business as date, that Mr. C, has returned there, from his visit to the east, and has obtained from the patentees to himself and his associates, a legal transfer of the right to construct a line of telegraph from Cincin-Louis, and to New Orleans, via Nashville, and arrangements are making to construct these lines with the proprietors of the patent do not recognize any other authority to construct any of these lines. Th business is entrusted to good hands, and Mr. Case's business reputation is ample guaranty that the work will be "put through" with all practicable desputch,

Ratiroad Matters.

The Utica and Schenectady railroad is to be relaid early the ensuing spring, with rails heavier and more substantial than any hitherto used in this country. The grading is now good, the fare has been made reasonable—a little over tree cents a milewhen the new rails are laid, there will be nothing more to be desired. We have a profound conviction, says the Rochester American, that the interests of the several railroad corporations, no less than that of the public, requires such renovation and improvement as are undertaken by the enterprising Utica. This important invention is likely to become a and Schenectady company. Heavy rails and good we anticipated. It will, however, be completed at treal to Halifax. Thus giving the first news by the ral beauty, along which a great current of travel

The Detroit Free Press states that on the 24th of December, ult., the Michigan Southern railroad Another line is recommended to Portland, passing company paid to the state treasurer, the second inalong the line of the railroad now building from stalment required by their charter for the purchase of Montreal to that city. Another line is contemplated the Southern railroad. On the same day the agents from Montreal to New York, intersecting at Sara- of the state started for Monroe for the purpose of toga. The line from Toronto to Montreal, passing transferring the road to the company, and to day sted in such matters. It is a beautiful sample of through Kingston, will also be built. There is al- we presume the road will pass from the state and be vested in the company. The amount paid by the The Pittsburg Gazette of the 31st ult., states that company, so far, is \$50,000, leaving \$450,000 to be the poles of the Pittsburg, Cincinnati, and Louisville paid in instalments hereafter. The terms of the nounced, by good judges, a superior article, and we line of telegraphs were being put up, commencing sale require the prompt finishing of the road, and invite all those interested in the construction of rail-at the corner of Fourth and Smithfield streets, and the jadvantages to the fertile portion of the state roads, or in the manufacture of iron, to call and look proceeding towards the Monongahela bridge, over through which it will pass, must necessarily be very great.

On Tuesday last, the County Commissioners This interesting village is located on the Schuyl- that city for the subscription of stock for the telegraph viewed the several highways and town-ways over city. Its importance is chiefly derived from the Charleston, S. C. The stock in the line from Bal- Sandwich; and the next day, at their meeting in ironworks of Mesers. Reeve, Buck & Co., and a timore to New York, has neued full twelve per cent Barnstable, they authorized the corporation to cross wide, and six feet high, under the road, for the cat-

The Baltimore and Ohio railroad company have

n the line is completed between Berwick and ale, the journey from Edinburg to London will be a matter of fifteen or sixteen hours. Little more than a century ago, the following notice was given: "9th May, 1734.—A coach will set out from dinburg towards the end of next week for London, or any place on the road. To be performed in nine ays, being three days somer than any other coach nat travels the road; for which purpose eight stout are stationed at proper distance

The Cincinnati Gazette informs us that the fol- this purpose. lowing named gentlemen were, on the 15th December, elected Directors of the Little Miami railroad company for the ensuing year, viz: Jeremiah Morrow, John Kilgour, Jacob Strader, John Kugler, amuel Barnett, C. Williams, R. R. Springer, G. Taylor, S. Hieling, N. Wright, R. Brachman, W. McCammon. At a subsequent period, the new Board organized by the election of Jeremiah Morrow, President, and Clark Williams, Secretary. At needed-500,000. This will probably be taken witha meeting of the Board held at the office of the com- in a week or two. pany in that city, a dividend of five per cent. was clared out of the profits for the past year, payable in the stock of the company, to all stockholders who had fully paid up their subscriptions previous to the 1st day of July last. On all stock paid up subsequently, a dividend was ordered to be paid pro rata from the first day of each month following the period of such payment,

The people of Bath and the Kennebec towns ge nerally are pushing forward vigorously the project of a railroad from Portland to Augusta, with a branch from Bath to Brunswick. The road is intended ultimately to be extended to Waterville, and from thence to the Penobscot.

An application will be made to the legislature for charter for a railroad from Lee, Mass., to Housa tonicville, to intersect with the Housatonic railroad. We learn from the Pittsfield Sun that a meeting was held at Lee on the 28th ult., at which a report of a survey was made, which represented the route as very feasible. The cost is estimated at \$500,000.

Coal Trade--Shipping--and other Items.

The Reading railroad company sent 1,233,561 tons over the road last year, being only 16,438 tons less than the managers estimated the capacity of the road. The quantity sent to market from all the regions in 1846, is in round numbers 2,334,000 tons, against 2,053,633 tons in 1845, being an increase in nomy, though it can set up a large quantity of type; it takes as much time to fill the canals again with type as it now takes to set them up by hand, and the setting up with the machine gives occasion to compare with what the Reading railroad is destined, ere long, to attain, in the transportation of coal. During the week ending Saturday, 2d inst., says the Cumberland Civilian, nearly 1,000 tons of coal were sent by the Maryland mining company on the Baltimore and Ohio ratiroad to the eastern markets, notwithstanding the intervention of the holidays.

The Geneva Gazette says that the statement of the business of the collector's office, in this village, as prepared by our attentive collector, Col. Bogert, s a gratifying account of the trade upon our ake and canal. The amount of tolls received at confident that the work will eventually be constructthe office is more than \$8000 greater than that reed. In regard to the expediency of this work and ceived last year, notwithstanding that there has been siderable reduction in the rates of tolls on the balk of the article.

BENJAMIN KINGSBURY, JR., the surveyor of Portland, furnishes a list of the vessels, with their class first place, we have no faith that the capital can be and tonnage, which have been built and registered raised. We judge so from the fact that the state, in the district of Portland during the year 1846 .-The district includes the towns of North Yarmouth,

Three barques and one schooner were built for Boston, and one barque for New York.

The proposition to establish a line of steam pack lature of Virginia, to incorporate a company for

The New York Tribune states that the contract was made on Monday, and next day preparations for the getting up the frame work were commenced. The first ship will be launched about the 15th prox. the stock of this company is going on favorably,

A new mill-pond, covering 80 acres, has lately of prosperity will doubtless witness the rise of a village of 8,000 to 10,000 inhabitants, where, until within a few years, the solitude has been almost unbroken, since the red man roved along the banks, or darted his canoe across the waters.

A memorial is to be presented at the coming ses the south side of Long Island. The project is to unite and make navigable the several bays upon the south side, from Riverhead or Southampton, to Coney Island.

The type-setting machine noticed in our columns last week, as having been successfully introduced to work in the office of the New York Sun, seems to be an old affair, which was abandoned some years ago in England. The New York Herald of the 27th ult., makes the following reference to it :-

"Some of the daily papers of last week have brought this machine before the public as a great wonder. But unhappily it is neither that nor a nowohter. But unhapping it is included that and a velty, nor a dangerous competitor to type-setters.—
It was known long ago in England, and has been tried in Clowes' printing office, in London, where it has been demonstrated that its application to practisetting up with the machine gives occasion to so much disorder and pi that Clowes found it a losing experiment, and returned the steam type-setter to its inventor.

" Parallel Railroads."

Under the above caption, the Rochester Democrat remarks that "the construction of a railroad on the line of the canal from Rochester to Syracuse, is again the subject of agitation in the towns on the proposed route. The presses at the points most inthose who are most active in the agitation feel quite its prospects of success, as well as the effects upon the interests of the state, we are, after a full investigation of the subject, constrained to differ from those who are taking measures to urge it forward. In the within the last five years, has authorized the con-

others. The total amount of new vessels is 49, viz: touched beyond partial surveys. The citizens of three ships, twenty-two barques, fourteen brigs, eleven schooners and one sloop, the tonnage of which Hornellsville road; but there is very little prospect is 10.467-an increase over last year of 2171 tons, that it will be built immediately. If capital cannot be procured for these works, where shall we find the sum necessary for the construction of a line that will have to compete with the canal as well as the ets between Richmond, Va., and New York, has line already in operation ? It surely cannot be raised been revived, and a petition presented to the Legis- along the route, and the course of our legislature in reference to railroads, claiming the right to regulate fares and reduce profits at pleasure, however just such interference may be deemed to be, will effectufor the second ship of the steam navigation company ally deter eastern capitalists from investing in New York enterprizes.

"A number of weighty objections present themselves against this enterprize-objections that have We are very glad to learn that the subscription to received additional force from the discussions in the various papers favorable to the project. The friends and that it only falls short \$76,000 of the amount of the route claim that their work, if constructed, will reduce the rates of fare so low that all the travel will be diverted from the canals to the railroads,-So far as the travelling public alone are concerned, been formed at Cabotville, Mass. The power acthis might prove a benefit. But the canal interest in quired by both dams is estimated to be sufficient to the great interest of the state. It gives employment carry from 80,000 to 100,000 spindles. A few years to thousands where railroads do to tens; and renders profitable large investments in boats, packets and warehouses. In time it will contribute largely to the ordinary expenses of the state, and relieve the people from general taxation. A large debt is now upon its hands, and the work of enlargement-a work all important, by the side of which railroads sion of the Legislature of N. York, for a canal upon dwindle into insignificance, is also thrown upon its resources. The friends of the canal-and they comprise five-sixths of the people of Western New York -will never consent that this great work shall be crippled for the benefit of the travelling public and a mere corporation."

We agree entirely with the editor of the Democrat in most of his views as given in this article, but not in his opinion of the value of railroads.

Manufacture of Plate Glass in England.

The Mining Journal states that perhaps there is no one article, the produce of the manufactures of the isles of Great Britain, in which there has been, for the last thirty years, so much room for the investment of capital, in competition with those who held the trade in their own hands, as that of plate glass. The statistics of this manufacture show some extraordinary features-always having a demand far beyond the power of the makers to supply, enormous profits have been made; and it is a well-known fact that one house, in 1845, the year of the total repeal of the duty, made in twelve months a profit of £30,000 on a paid-up capital of £125,000, or very nearly 25 per cent. per annum. Notwithstanding the increasing supply annually, since 1819, the demand has increased in a greater ratio; in that year the manufacture was 3000 superficial feet per week, of indifferent quality, with no complaint as to the supply; in 1827 it was 5000 feet, considerably imterested speak warmly in favor of the measure, and proved, but inadequate to the demand; in 1836 it was 7000 feet, improved, but still insufficient; and in 1844 it had risen to 23,000 feet per week, still improving in quality, but the supply more inadequate than ever. In 1819 the average price for all sizes was from 20s. to 25s. per foot, and is now from 5s. to 6s. per foot. Large plates-say 144 inches by 75 -could not be manufactured till about the inches year 1836; they are now made with facility, and sold at 35s. 7d. per foot, while French plates, made at St. Gobain, free of duty, cannot be obtained of that struction of some fourteen or fifteen railroads, all of size under 67s. 11d. per foot. There are still only Brunswick, Freeport, Harpswell, and perhaps some them on important routes, none of which have been seven houses engaged in this manufacture; the sales average 45,000 feet per week; and the demand is so separated from the trunk, and an arm was the pleasure of an interview with Mr. Gedd on the increase, that the works are kept in constant operation, some of them day and night. The duty remitted in 1845 amounted to about forty per cent. on the cost price-while such reduction has only benefitted the consumer to the extent of fifteen per cent.; and even at these enormously increased profits, as we have before stated, the demand far exceeds the supply.

Awful Neglect and Accident.

We are particularly pained to day, to record the details of one of the most shocking accidents it has ever been our lot to know in this country, which tressing sight; the most affecting part of which took place upon the Reading railroad, on Thursday was an aged father bending over and bathing took place upon the Reading railroad, on Thursday evening last. The explosion occurred just beyond the corpse of his son. the Mill creek bridge, a little way above Manayank, some nine or ten miles from this city—by which settle road, immediately on the receipt of the day. You say that it is proposed to make ven beings were immediately killed—not one of the intelligence of the accident, proceded to the plank roads in two directions from Rome, whole number present, being left to tell the story!

Scene of the disaster, and were untiring in and that you understand that I am "fully The locomotive attached to an empty coal train, every exertion that humanity dictated, informed as to the cost, manner of constructions. The locomotive attached to an empty coal train, every exertion that humanity dictated. bound up, exploded with a dreadful crash, at the spot we have named above, destroying the engine, tender, etc., and blowing to atoms the persons who were unforrunately upon the cars. The "Spirit of the Times" gives the following terrible particulars in relation to this melancholy accident. in relation to this melancholy accident.

The cause of the explosion, says that paper, is, of course, enveloped in mystery, and can only form the subject of conjecture. The most rational conclusion is that the water was allowed to get out of the boiler, and when the flues were perhaps red hot, the water was let on. Gas being thus rapidly generated produced the explosion. The boiler value of the property transported, and the excess exploded upwards and outwards, throwing both in tonnage and value over previous years is the driving wheels out each side, tearing the engine to pieces, staving in the tank, wrecking the tender, damaging half a dozen of the cars—and producing altogether, it is believed, the most frightful wreck of the kind ever befiscal year ending July, 1844, and greater by \$7. held. The terrible result that ensued was 297,845 than the value of the goods imported into never equalled. The body, or rather the the United States for the same time.

trunk of the body of one of the brake men These facts speak volumes in fav. two hundred and fifty yards. Beside, or near in a national point of view, as worthy the attention him, were two pieces of iron from the boiler, of the general government. weighing two or three hundred pounds each, that were found indented some two and a half feet into the ground. Another body was found upon a small island of ice in the stream, that had been blown through a large tree, in the limbs of which parts of the clothing were hanging. The body supposed to be that of the engineer was discovered driven into the water tank Sticks of wood were forced thro' it, and from this circumstance, it is thought that the unfortunate man must have been either on or near the wood-pile, or it may have been, was in the act of handling the billets at the moment of the accident. One man was blown up the hill and his body being doubled up, was sent through a fence, which it carried with it. A body was found with nothing on it save a scarf around his neck; others with only pieces of the flannel shirt. Out of the seven bodies, there was not more than one that was whole enough to be recognized with any certainty. All were stripped entirely of their clothing, except here and there a remount that clung to some portion of them. The head of one of the men was of them. The head of one of the men was general knowledge, and made their estimates and common earth, we laid but one; and during found mashed to a jelly, another was found commenced operations. Some months ago we had the very rainy autumn just past, our room

The report of the explosion was tremendous. It was heard a great distance, and the concussion shook the windows at the Falls of the Schuylkill, four miles from the scene. The locomotive was an eight wheel one of the largest and finest description, and was named "Neversink." The collecting of the mentioned, we omit, as not of such general inbodies vesterday was a melancholy and dis-

Commerce of the Canals.

The Albany Argus has prepared, from official sources, a table of the commerce of the canals of in strong colors the wealth of that state and of the

Accompanying the table showing the movement 1845.

These facts speak volumes in favor of the imporwas thrown up a hill, the distance of at least tance of this commerce, not only to that state, but

Plank Roads.

The subject of plank roads seems to have excited good deal of attention latterly. The Syracuse Journal of a late date, remarks that the one constructed last year, in that county, has " satisfied every person who has travelled on it, of its vast superiority over any other road in the country. We are permitted to publish the following letter to the Hon. John Stryker, of Rome, from the Engineer of that road, as applications are continually made to him for information on the subject."

The following letter from GEO. GEDDES, Esq. C. E. upon this subject, will be read with interest. Mr. G. is very favorably known to the railroad community-and he is eminently well qualified to offer information upon this subject. We learn that tried, that one track is entirely sufficient, e Mr. G. and Mr. Alvord of Salina, were the prin- cept in cases of an extraordinary amou Salina to Brewerton.

experienced gentlemen connected with enterprizes in dry weather, a wagon would cut into the of this character there, and then returned with a sand, we laid two tracks, but over clay of

picked up in a field with a tin cup in the were both astonished and gratified by his statem hand. The corpses were all horribly mutiof the complete success attending plank ro
lated, torn, burnt, and blackened. wherever tried. He was firmly of the opinion that a system of such roads radiating from this city as a centre, into the rich country which surrounds it, would very greatly increase its wealth and bu ness, as well as prove highly profitable to the sto holders. We commend his article to the attenti of the public. The draft of a proposed act, therein terest."

FAIRMOUNT, ONON. Co. N. Y. ? December 24, 1846.

JOHN STRYKER, Esq., DEAR SIR.-Your tion, etc." and you ask me to communicate to you such information as may be useful to

I have twice visited Canada to procure information upon this subject, and as you probably know, during the past year, I have had charge, as Engineer, of the construction of the Salina and Central Square plank road, from and to the Hudson for the past season, is a twelve and a half miles of which are finished similar one of the movement for the season of have acquired by my examinations and ex-It is shown that there is an increase in the tonnage of 172,579 tons, and of \$14,826,461 in the value of the property transported, and the excess me to be important to the objects you have in

> projects to unite, and procure the enactment of such a law by the Legislature, at an early day of the next session. At the suggestion of various gentlemen, I have drawn up a law, which, in my opinion, will give all the powers necessary to the companies organized under it, and amply protect the public and the owners of land from injury. A copy of the proposed law I will send you.

The mode of construction of a plank road is the point upon which you are most desirous of information.

In case it is expected that a very great amount of travel is to pass over the roo tracks, each eight feet wide, will be re-quired; but it is not probable that any road coming into your town will require more than one track; at any rate for more than a few miles out of town. It is difficult to persuade a man, who has not seen the thin cipal managers in constructing the plank road from travel; but it is so, and the road out of Salina, has but one track, except over place where proper earth could not be obtained with which to make a road along side of the "They visited Canada together"—says the where proper earth could not be obtain.

Rochester American, "previous to the commence—with which to make a road along side of alment of this road, examined several, consulted with plank. Over the light sand plains, when

racter of the Salina road allows the Directors to regulate the tolls within certain limits; worn out, then of course thin plank should be used. The Canada roads are generally winter one-half the sum allowed us from three inches thick and are made of pine, and various projects are being started for the extension of our road, and constructing other last about eight years. interests to encourage such an amount of travel as to insure the wearing out, rather plank road, eight feet wide, for one mile: than the rotting out of our timber, and by taxing the travel lightly, we increase the Sills 4 in. by 4 in... 14080 ft. 8 ft. width of p'k 3 in. thick 127726 "

The track is laid on one side of the road so that teams coming into town keep it, and teams going out yield it in passing. The tonnage being chiefly in one direction, it is generally the unloaded teams that have to do all the turning out.

The plank are of hemlock, eight feet long and four inches thick, laid crosswise of the road, on sills four inches square. The earth is broken up and made fine, the sills are bedded into it, and the surface graded smooth; the plank are then laid on the sills, care being taken that the earth is up to and touches the plank at every point. This is important, for if any space be left for air under the plank, or along side the sills, dry rot follows. I saw, in Canada, a road that had been worn out, and was being rebuilt. The sills were good and the plank were sound on the under side, save where air had supplied the place of earth, and there they were destroyed by rot. The plank having been laid, the next thing is to grade a road some ten or twelve feet wide on one side, and two or three on the other, by taking earth from the ditches on each side, and bringing it by a ditch struction of our road, for the reason that, we scraper just up to and even with the upper were very desirous of securing the bedding side of the plank, so that if a wheel runs off of the timber perfectly, a thing that my obtent. The ends of the plank should not be laid even, but a part should project from two to four inches by the general line, to prevent new business, no person was willing to una rut being cut just along the ends of the dertake the work at the price estimated. a rut being cut just along the ends of the plank. If the ends of the plank are even, and a small rut is made, the wheel of a secured its perfect construction in this parloaded wagon will scrape along the ends ticular, but we saved some thousands of dolfor some distance before it will rise up to the lars in the cost. After we had acquired extended the plank, unless the wagon moves in perience and skill, we reduced the cost of a direction nearly across the road; but if the grading and laying the road to from thirty to wheel can not move two feet forward without coming square against the edge of a projecting plank, the difficulty of getting on the
road is avoided. It is not necessary to pin or spike, the plank to the sills.

has constantly been in good order for teams | As to the cost of such a road, I will cost of construction. The lumber you can Lase there is so much travel that common earth cannot be kept in good order for turning out—then the tolls paid by that travel will compensate for the cost of the second track; so that the interests of the public and the owners meet, and the thing will regulate itself. If the second track is required, then its cost will be a good investment.

There is another particular in which the public interests, and the interests of the owners go together—the tolls. The characteristics of the cost of such a road, I will cost of construction. The lumber you can best obtain by dividing the road into eighty rod sections, staking them out and letting them to the most favorable proposers—the turning out—then the tolls paid by that travel inform you that this road was made upon the bed of an old road, filled in many places with stone and logs. The right of way cost us nothing. The estimate was for plank three or four inches thick. Where we laid two tracks, we laid one of them with three inch plank, but the main track was four inches thick. It is economy to use thick plank if the travel is sufficient to wear the cost of construction. The lumber you can best obtain by dividing the road into eighty rod sections, staking them out and letting them to the most favorable proposers—the turning out—then the tolls paid by that travel in form you that this road was made upon the bed of an old road, filled in many places with stone and logs. The right of way cost us nothing. The estimate was for plank three or four inches thick. Where we laid two tracks, we laid one of them with three inch plank, but the main track was four inches thick. It is economy to use thick plank if the travel is sufficient to wear. owners go together—the tolls. The chathick plank if the travel is sufficient to wear best roads in England, say that there is not racter of the Salina road allows the Directout the road, but if it is to rot before it is in Great Britain as good a road as the Salina

Estimate of the cost of a single track

14080 ft. B. M.

At \$5 a thousand,	140800
	8704,00
Laying and grading \$1, a rod,	320,00
	1024,00
Engineering, Superintendence, etc. 10 per cent.	102 00
Gate houses, say \$100,	1126,00
tipe to yan disquire for	1226,00
For a 4 in. road add 42240 ft. at \$5 per M.,	211,00
Land of the second state of the second	1437,00
Sluices, bridges and con- tingencies,	63,00
free and the state	\$1500.00

Perfect drainage must be secured, and to that end the ditches must be deep and wide, and good sluices wherever water crosses the road. This is the important point—drain perfectly.

If you make plank roads, I havise you by and near the riousatome road, would better the roads, and near the riousatome road, would better the roads, I havise you by and near the riousatome road, would better all means to do the work by the day, and accommodate the trade, be more profitable to New York, and yield a larger revenue on the stock. A mere statement of the case, so whole matter. The variation of a few inches in the line of a road, may tell largely in the

roads, radiating from the capital of our county.

Very respectfully, Yours, &c.

GEO. GEDDES, Civil Engineer.

New York and Albany or Hudson River Railroad.

We find the following exceedingly appropriate article on this important subject, in a late number of the New York Journal of Commerce. It is from the able pen of a gentleman who has, often before, labored for the best interests of the city of New York, without having his labors—at the time—duly appreciated by those most deeply interested. He is, however, fortunately for the people, one of those men who, conscious of being right on the subject under consideration, labor on, even though others differ in opinion, and labor against them. In this great work, however, as in that of "city sewerage"—for which he labored long and devotedly-he may look for entire success, at an early day, if the property holders of New York can be made to see their own true interest.

From the Journal of Commerce of 19th December.

Hudson River Railroad.—The Hudson river, among its great benefits, accommodates a breadth of country on each side of it of about 20 miles, or a strip forty miles wide. The industry conducted within that space finds accommodation at the river towns for prosecuting its business with the city: accommodation of all sorts, - ware-houses, taverns, merchants, capital; indeed, all the arrangements necessary for the business of an active region of country. A railroad running through these towns will, at the close of navigation, take up the trade, where the boats have it, and carry it on without any other change than that of the medium of conveyance. The facilities of the kind above enumerated, will be quite as needful to those who use the railroad, as to those who use the river. There are people, however, intelligent, candid and respectable, who insist that a road running on the extreme right of the belt of forty miles, cut though it must be through cultivated fields and along small streams and rivulets, and over the mountains, If you make plank roads, I advise you by and near the Housatonic road, would better

to the right of the river would be of no use course is generally straight. to those living on its left, and who in the winter might cross on the ice to a nearer stowed these important benefits,—benefits known, in our dwellings and their decoration of passengers to animate them, instead of that to those living on its left, and who in the trade would exist on the inland route-and and goods cheap and rapid, which enable an exalted rivalry which civilization has lately that the wealth accumulated at the towns engine of small power to do heavy work; called into play for the benefit of mankind. would be seriously diminished by a road which make the enormous expense that acthat should divert from them their usual crues from deep cuttings and heavy embank-

The inland road would, like our laters region, and like them not pay; the river mountains and across deep valleys. road should be where the great trade has always been conducted to the profit of car-

riers and all engaged in it.

their plans.

The objection applies to any road between this and Albany, but the answer to it, as far

any other whatever.

roads arose from the rails being sustained the melting of the snows, certainly as little the fortunes of the state. "on square stone blocks measuring two feet as on any other route. on the side, and twelve inches deep. Cross Those who are alarmed at the occasional sleepers of timber (says the Review) were passage of the road over the few shallow selves in matters of public concern, and see only used as temporary supports on embank-inlets of the river, may read with profit an that the impress of their opinion and acts is ments until their seulement and consolida- article in the Foreign Quarterly for January, made on her future progress. tion should be effected by time and work. on the relative advantages of the routes

The cheap American plan of cross sleepers of timber, is found in England to be the best; proving that their expensive foundations, and but lately twenty feet best; proving that their expensive foundations, and requiring a causeway tions did not constitute the element as is erroneously supposed, of their superiority in speed. It arose from other causes. They have been considered were long ago overrejected all curves but those of a large radius, and restricted themselves to gradiants of a low limit. See Page 260. These, obtained only at immense cost in England, but behind all the world besides. The world besides to stake a reputation not surpassed for prudence and skill, on the suctement only at immense cost in England, but behind all the world besides.

accomplishing high speed.

that the dip which occurred at the highlands in a long chain of mountains;—the course of the valley, straight almost as the flight of Boston is securing the trade that belongs an arrow; the flow of the tide extending up to and beyond Albany; made the valley of the Hudson eminently suited for a railroad; and that we should abandon a great natural advantage, an advantage possessed by no other state aspiring to the western trade, to leave it and climb over the mountains. leave it and climb over the mountains.

The surveys show that the general route us of its waters, what amount would we not Coal trans.-tons. 5,785

when it is closed—that a road twenty miles wide radius of 2000 feet; in a line whose sion for that time to Boston, make no im-

ments unnecessary; and which save expense a maintaining the road, and in repairs, such canals, extend through a fine agricultural as belong to those of high grades, built over

Objection is also made to the use of this route on the ground of expected difficulty from snow and ice. The Emperor of Russia There are those also, who are constantly under the superintendence of Mr. Whistler, urging that a road along the river will be an American, is now building a road from unable to stand competition with the river, St. Petersburg to Moscow, and would no unless the very highest speed is accom-doubt be quite amused to hear that in this plished, such as is usual on the English latitude hesitation existed for such cause, on roads, and that it will cost too much to adopt the part of those who preferred a route over mountains. It is estimated that every 80 yards of elevation is equivalent to one de gree of latitude north, and that the mountains as concerns the road in question, is most in question are from seven hundred to one thousand feet high. The great snow storm of February 1845 extended to the Boston in a powerful article on "Railways at home and Albany road, but the track was cleared in a powerful article on "Railways at home and Albany road, but the track was cleared in the story of the and abroad," shows that what in England in about twenty-four hours. It lay for near-produces high speed, may more easily be ly a fortnight on a road much nearer home. obtained cheap, on the river route, than on The river road being on the east bank of the spect of all men, and their counsels are one great expense in building the English out little difficulty can be experienced from

The stone blocks are, however, now every-through Asia proposed to the East India than the one which now may safely be anwhere abandoned, and the cross sleepers of Company for a road to be built by them from wered in the affirmative, whether it will timber permanently and universally estab-lished."

They may then as some other question through Asia proposed to the East India than the one which now may safely be anwhere abandoned, and the cross sleepers of Company for a road to be built by them from Mirzapore to Calcutta; one, along the pay a good dividend should they subscribe lished."

were the main elements of their success in They are objections not taken by Engineers, I attempted to show in a previous article, wise be friends of this route.

While we are discussing them however,

Should some convulsion of nature deprive

minds. They will perceive that those who through that valley is nearly level, and that pay to restore them to its banks; and yet its go to the river when the navigation is open, will conduct business there over a railroad mile. The few curves which exist have the of four,) and what is equivalent to its diverpression on our sagacious capitalists!

Boston acts not thus, her railroads form s perfect net work over Massachusetts, and they are penetrating into our own state.

Acting upon the cupidity of Northern and
Western New York, to whom she offered a second market for their sales and purchases she readily overcame every feeling of friend-ship and allegiance to this city, and from her liberality, her help to our main line of roads which this city would not build, procured weight and influence in the councils of our state.

This city has none. "You opposed our canal," said a member to me when pressing on him the necessity of this road; " you would not help to build our railroads; your best men take no part nor interest in our legislation, you cannot expect much sympathy for you here."

This is the contemptuous feeling which our want of public spirit has secured, and is likely to continue owards us, while the master spirits of Boston have won the relistened to by the public functionaries of Massachusetts, and they take part and lot in

A happy day will it be for New York. when our best citizens shall employ them-

They may then ask some other question

river route, which expires unless subscribed to by the first of March. An engineer of tried experience, and of undoubted integrity, whose services are withheld from a rival few disinterested men, with a generous subscription of their own capital, present confidently to their fellow citizens.

GEO. B. BUTLER.

(Official) Reading Railroad.

charter for the poor. Lastly, if the magnet-Inquirer. hensive scheme, where shall calculation look for the limits of its vast results? Basing our calculations upon our wonderful advance in Chestnut street.

September, and will be capable of turning out 30 to 40 tons or finished Rails per day. They are now prepared to receive orders to that extent, deliverable after the 1st of Octobet next, for heavy rails of any the present century, it is no extravagance to predict that in less than fifty years, we shall behold in our beloved country, a government holding the preponderance of power, owning a population of a hundred millions, with a central capital in the great valley of the Mississippi, commanding from its nucleus of power an electric communication over three millions of square miles, and diffusing its millions of square miles, and diffusing its enlarged spirit of liberty, philanthropy, peace and good-will, to the ultermost ends of the earth, in a fulness that will realize at least board to arrive, for sale on most favorable terms by the fondest dreams of the millenium!" He JAVIS, BROOKS & CO., Jan. 2. [1tf] 68 Broad St., New York. enlarged spirit of liberty, philanthropy, peace and good will, to the uttermost ends of the earth, in a fulness that will realize at least board to arrive, for sale on most favorable terms by the fondest dreams of the millenium!" He also urges that the earliest practicable time should be adopted to carry out the design, and closes thus:

RAILROAD IRON.—THE NEW JERSEY Patronage of persons engaged in the making of Mashrough the contracts for Rails, deliverable to make Railroad Bars, and are ready to take orders or make contracts for Rails, deliverable ed Fire Bricks and prepared Kaolin or Fire Clay after the first of December next. Apply to orders for which are promptly supplied.

tate the segregation of the continent, and while England is employing an expensive aquadron in the Arctic sea, we certainly are

No. 139 Greenwich, corner of Cedar street September 18, 1846.

Geo. A. Wilkes, in the course of a pamph let, urging the importance of a tailroad from our own territories, for accomplishing the importance of a tailroad from our own territories, for accomplishing the form the considerations of national aggrandizement this work is warranted by considerations which make their appeal as well to the heart of the philanthropist, as to the calculation of the statesman. It would not only from its sleep an the abyss, and which, after the bound with an absorbing and relistless attraction, the separate interests of the north and south, but would be a benefaction to the last original reliance in favor of the government, that among all the chartered privileges lavished time and again upon the rich, it had found it in its heart to make at least one charter for the poor. Lastly, if the magnet.

In addition, the last meridian, and spreads its generation by the poor. Lastly, if the magnet. In addition, it is the last meridian, and spreads its generation by the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In addition, it is the poor. Lastly, if the magnet. In the poor is the poor. Lastly, if the magnet. In the poor is the poor. Lastly, if the magnet. In the poor is the poor is the poor is th

10:39

RAILROAD IRON.—THE SUBSCRIBER'S New Rail Iron Mill at Phoenixville, Pa., is expected to be ready to go into operation by the 1st of September, and will be capable of turning out 30 to after the 1st of Octobet next, for heavy rails of any pattern now in use, equal in quality and finish to best imported.

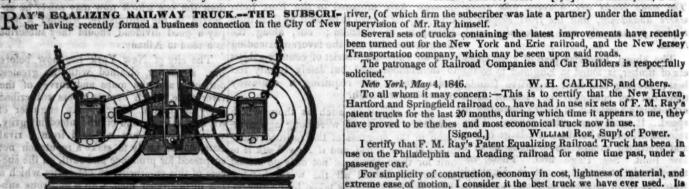
THE SUBSCRIBERS, AGENTS FOR the sale of Codorus,

orders for which are promptly supplied.

SAM'L. KIMBER, & CO.,

59 North Wharves,

Jan. 14, 1846. [1y4] Philadelphia, Pa.



York, expressly for the manufacture of the newly patented and highly approved Railroad Truck of Mr. Fowler M. Ray, is ready to receive orders for building the same, from Railroad Companies and Car Builders in the United States, and elsewhere.

States, and elsewhere.

The above Truck-has now been in use from one to two years on several roads a sufficient length of time to test its annability, and other good qualities, and to satisfy those who have used it, as may be seen by reference to the certificates which follow this notice.

There have been several improvements lately introduced upon the Truck, such as additional springs in the bolser of passenger cars, making them delightful riding cars—adapting it to tenders, trucks forward of the locomotive, and freight cars, which, with its original good qualities, make it in all respects the most desirable truck now offered to the public.

Orders for the above, will, for the present, be executed at the New York Serew Mill, corner 33d street and 3d avenue, (late P. Cooper's rolling mills); and at the Steam Engine Shop of T. F. Secor & Co., foot of 9th street, East

solicited.

Note York, May 4, 1846.

W. H. CALKINS, and Others.

To all whom it may concern:—This is to certify that the New Haven, Hartford and Springfield railroad co., have had in use six sets of F. M. Ray's patent trucks for the last 20 months, during which time it appears to me, they have proved to be the best and most economical truck now in use.

[Signed,] WILLIAM Ror, Sup't of Power.
I certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Philadelphia and Reading railroad for some time past, under a passenger car.

For simplicity of construction, economy in cost, lightness of material, and extreme ease of motion, I consider it the best truck we have ever used. Its peculiar make also renders it less liable to be thrown off the track, when passing over any obstruction. We intend using it extensively under the passenger and freight cars of the above road.

ger and freight cars of the above road.

Reading, Pa., October 6, 1845. [Signed.] G. A. Nicoll,
Supt Transportation, etc., Philadelphia and Reading Railroad.

To all whom it may concern:—This is to certify that the N. Jersey Railroad and Transportation company have used Fowler M. Ray's Truck for the last seven months, during which time it has operated to our entire satisfaction. I have no hesitation in saying that it is the simplest and most economical truck now in use.

[Signed.] T. L. Smitti,

Jersey City, November 4, 1845. N. Jersey Railroad and Transp. Co.

This is to certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Long Island railroad for the last year, under a freight car.

For simplicity of construction, economy in cost, lightness of material and case of motion, I consider it equal to any truck we have in use.

Long Island Railroad Depot, [Signed.] John Leach,

Jamaica November 12, 1845. [1919]



PICH & CO'S IMPROV MANDER SAFES.
Warranted free from dampness, as well as fireand thief proof.

Particular attention is invit-ed to the following certificates, which speak for themselves:

which speak for themselves:
TEST No. 10.

Certificate from Mr. Sidas C. Field, of Vicksburgh,
Mississippi.

On the morning of the 14th ult., the store owned and occupied by me in this city, was, with its contents, entirely consumed by fire. My stock of goods consisted of oil, rosin, lard, pork, sugar, molasses, iquors, and other articles of a combustible nature, in the midst of which was one of Rich's improved Patent Salamander Safes, which I purchased last October of Mr. Isaac Bridge, New Orleans, and which contained my books and papers. This safe was red hot, and did not cool sufficiently to be opened until 16 hours after it was taken from the ruins. At the expiration of that time it was unlocked, when At the expiration of that time it was unlocked, when At the expiration of that time it was unice ked, when its contents proved to be entirely uninjured, and not even discolored. I deem this test sufficient to show that the high reputation enjoyed by Rich's Safes is well merited.

S. C. Field.

TEST No. 11.—Certificate.

By the fire which occurred in this village on the By the fire which occurred in this village on the 27th July last, our Law Office, together with many other buildings, was destroyed—we had in our office one of Rich's Improved Patent Salamander Safes, which, though heated red hot, preserved, without being the least camaged, many papers valuable to our clients—the envelopes of a tew papers being slightly scorched. Some twenty-tour hours after the fire, the Safe was removed, and so hot was it, that several hours were required for it to cool off. Our office was in the second story of a large brick building, all the wood used in construction of said house being pitch pine. While the Safe was red hot, one of the the wood used in construction of said house being pitch pine. While the Safe was red hot, one of the walls tumbled in, and so injured the lock that it was necessary to break the door open. From this test, we feel no hesitancy in recommending "Rich's Patent Salamander Safe" as entirely five proof.

Gorge & King.

Marion, Ala., Sept. 15th, 1846.

Still other Tests in the Great Fire of July 19, 1845.

The undersigned purchased of A. S. Martin, No. 1384 Water street, one of Rich's Improved Patent Salamander Safes, which was in our store, No. 54 Exchange place. The store was entirely consumed in the great conflagration on the morning of the 19th inst. The safe was taken from the ruins 52 hours after, and on opening it, the books and papers were found entirely uninjured by fire, and only slightly wet—the leather on some of the books was perched by the extreme heat.

Richards & Cronkhitz.

Benton, Miss., December 27, 1845.

Benton, Miss., December 27, 1845.
One of Rich's Improved Salamander Safes, which I purchased on the 2d of June last of A. S. Marvin, 1381 Water street, agent for the manufacturer, wa 1384 Water street, agent for the manufacturer, was exposed to the most intense heat during the late dreadful conflagration. The store which I occupied, No. 46 Broad street, was entirely consumed; the safe fell from the 2d story, about 15 feet, into the celar, and remained there 14 nours, and when found, I am told, and from its appearance afterwards, should judge that it had been heated to a red heat. On opening it, the books and papers were found not to have been touched by fire. I deem this ordeal sufficient to confirm fully the reputation that Rich's safe has already obtained for preserving its contents against all hazards. (Signed.)

New York, 21st July, 1845.

New York, 21st July, 1845.

Reference made to upwards of nine hundred and fifty merchants, cashiers, brokers, and officers of courts and counties, who have Rich's Safe's in use.

The above safes are finished in the neatest man Ler, and can be made to order at short notice, of any size and pattern, and fitted to contain plate, jewelry, etc. Prices from \$50 to \$500 each. For sale by

A. S. MARVIN, General Agent,

1384 Water st., N.Y.

Also by Isaac Bridge 76 Magazine street, New

Orleans.
Also by Lewis M Hatch, 120 Meeting street Charleston, S. C.

FRENCH AND BAIRD'S PATENT SPARK ARRESTER.

TO THOSE INTERESTED IN Railroads, Railroad Director and Managers are respectfully invited to examine an improved SPARK ARRESTER, recently patented by the undersigned.

the undersigned.
Our improved Spark Arresters have been extensively used during the last year on both passenger and freight engines, and have been brought to such a state of perfection that no annoyance from sparks or dust from the chimney of engines on which they are used in experienced.

novance from sparks or dust from the chimney of engines on which they are used is experienced.

These Arresters are constructed on an entirely different principle from any increorage offered to the heated air, smoke and sparks passing through the chimney, and by the centrifugal force thus acquired by the sparks and dust they are separated from the smoke and steam, and thrown into an outer chamber of the chimney through openings near its top, from whence they fall by their own gravity to the bottom of this chamber; the smoke and steam passing off at the top of the chimney, through a capacious and unobstructed passage, thus arresting the sparks without impairing the power of the engine by diminishing the draught or activity of the fire in the furnace.

These chimneys and arresters are simple, durable and neat in appearance. They are now in use on the following roads, to the managers, and other officers of which we are at liberty to refer those who may desire to purchase or obtain further information in regard to their merits:

K. L. Stevens, President Camden and Amboy Railroad Company; Richard Peters, Superintendant Georgia Railroad, Reading, Pa.; W. E. Morris, President Philadelphia, Germantown and Norriston Railroad, Reading, Pa.; W. E. Morris, President Philadelphia, Germantown and Norriston Railroad Company, Philadelphia; E. B. Dudley, President W. and R. Railroad Company, Wilmington, N. C.; Col. James Gadsden, President S. C. and C. Railroad Company, Charleston, S. C.; W. C. Walker, Agent Vicksburgh and Jackson Railroad, Vicksburgh, Miss.; R. S. Van Renseller, Engineer and Sup't Hartford and New Haven Railroad; W. R. M'Kee, Sup't Lexington and Ohio Railroad, Lexington, Ky.; T. L. Smith, Sup't New Jersey Railroad Trans. Co.; J. Elliott, Sup't Morros, Mich.; M. F. Chistonden, Sup't New Jersey Railroad Trans. Co.; J. Elliott, Sup't Morros, Mich.; M. F. Chistonden, Sup't New Jersey Railroad, Detroit, Mich.; G. B. Fisk, President Long Island Railroad, Brooklyn.

Orders for these Chimneys and Arresters, addressed

Orders for these Chimneys and Arresters, addressed to the subscribers, care Messrs. Baldwin & Whitney, of this city or to Hinckly & Drury, Boston, will be promptly executed. FRENCH & BAIRD.

N. B.—The subscribers will dispose of single rights, or rights for one or more States, on reasonable terms.

Philadelphia, Pa., April 6, 1844.

** The letters in the figures refer to the article given in the Journal of June, 1844.

DATENT HAMMERED RAHLROAD, SHII and Boat Spikes. The Albany Iron and Naii Works have always on hand, of their own manufacture, a large assortment of Railroad, Ship and Boat Spikes, from 2 to 12 inches in length, and of any lorm of head. From the excellence of the material always used in their manufacture, and their very general use for railroads and other purposes in this country, the manufacturers have no hesitation in warranting them fully equal to the best spikes in market, both as to quality and appearance. All orders addressed to the subscriber at the works, will be promptly executed. JOHN F. WINSLOW, Agent.

Albany Iron and Nail Works, Troy, N. Y. The above spikes may be had at factory prices, of Erastus Corning & Co., Albany; Hart & Merritt, New York; J. H. Whitney, do.; E. J. Etting, Philadelphia; Wm. E. Coffin & Co., Boston. 1345

MACHINE WORKS OF ROGERS, M. Ketchum & Grosvenor, Patterson, N. J. The undersigned receive orders for the following articles, manufactured by them of the most superior description in every particular. Their works being extensive and the number of hands employed beinglarge, they are enabled to execute both large and small orders and chills: ear wheels of cast iron, irom a variety of patters, and chills: ear wheels of cast iron, irom a variety of patters, and chills: ear wheels of cast iron, irom a variety of patters.

and other locomotive wheels, axles, springs & flange tires; car wheels of cast iron, from a variety of patterns, and chills; car wheels of cast iron with wrought tires; axles of best American refined iron; springs; boxes and bolts for cars.

Cotton, Wool and Flax Machinery of all descriptions and of the most improved patterns, and workparable.

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A45 Paterson, N. J., or 60 Wall street, N. York. nutes.

tires; car wheels of cast iron, from a variety of patterns, and chills; car wheels of cast iron with wrought tires; axles of best American refined iron; springs; boxes and bolts for cars.

Cotton, Wool and Flax Machinery of all descriptions and of the most improved patterns, style and workmanship.

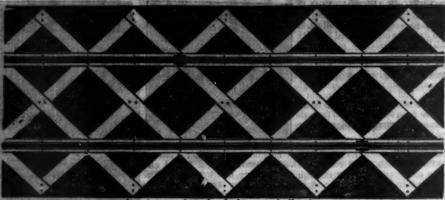
Mill gearing and Millwright work generally; hydraulic and other presses; press acrews; callenders; lathes and tools of all kinds; iron and brass castings of all descriptions.

ROGERS, KETCHUM & GROSVENOR, at the country.

Our Works are within fifteen minutes ride from State street, Boston—coaches pass every fifteet ml-







een stripped of the top ballasting

A GOLD MEDAL AWARDED THE INVENTOR BY THE AMERICAN INSTITUTE.

THE UNDERSIGNED RESPECTFUL—but 8 feet; the timber being more concentrated under ly invites the attention of Engineers, and Rail-the Rails. A block of hard wood, about 2 feet long road Companies, to some highly important improve-and 15 inches wide, is introduced into a square of ments he has recently made in the Herron system of the trellis for the purpose of giving an additional, Railway structure. These improvements enableand effectual support to the joints of the Rails, him to effect a very large reduction in the quantity which rest upon it. Should these joint blocks be-of Timber, and cost of construction, without impair-tome chafed and worn by the working, and imbeding the strength of the Track, or its powers of resist-ding of the chairs, as is now the case on all Railing frost, while they secure additional features of roads, they can be readily replaced without any deexcellence in the Drainage and facility of making rangement of the timbers less liable to wear.

The following is a general estimate of its cost near

Repairs.

The above cut represents the "Herron Track" as it is laid on the Philadelphia and Reading, and on he Baltimore and Susquehanna Railroads. The intersection of the stills of the trellis are 5 feet from centre to centre, while in the new construction they are only 21 feet. This renders the string piece unnecessary, thus removing the only objectionable feature found in the Track.

The result of experience has proved that all Tracks constructed with longitudinal timbers, such as mud sills, and more especially, the continuous bearing string pieces retain the rain water that falls between the Rails, which, being thus confined, settles along those timbers, and accumulating in quantity flows rapidly along them on the descending grades, washing out the earth from under the timber, and frequently causing large breaches in the embankments of the road. Whereas all water intercepted by the of the road. Whereas all water intercepted by the oblique sills of the trellis, is discharged immediately into the side ditches.

The track foresting the Track occurries a Pead bad.

The following is a general estimate of its cost near the seaboard. In the interior it will be considerably the seaboard. In the interior it will be considerably less.

The following is ageneral estimate of its cost near the seaboard. In the interior it will be considerably less.

ESTIMATE OF THE PROBABLE COST OF ONE MILE.

4,224 Timbers, 11 ft, long, 3 x 6 inches =

68,696 ft. b.m., at \$10 - \$686 96

87 Oak joint blocks 2 ft. x 3 x 15 in. =

4,403 ft. b.m., at \$13 = ... 57 24

13,000 Spikes = 2,250 lbs. at 4\{1} cts. ... \$1,445 45

Workmanship free of patent charge. ... \$1,445 45

He has made other important improvements, which will be shown in properly proportioned models, that give a much better idea of the great strength of the Track than a drawing will do.

Sales of the Patent right to all the distant States will be made on liberal terms.

the side ditch In the 5 foot plan, the Track occupies a Road bed early 11 feet wide, while the new construction takes

JAMES HERRON.

Civil Engineer and Patentee.

No. 277 South Tenth St., Philadelphia. 33

ENGLISH PATENT WIRE ROPES—FOR THE USE OF MINES, RAILWAYS, ETC.

These Ropes are manufactured on an entirely different principle from any other, and are now almost exclusively used in the collieries and on the railways in Great Britain, where they are considered to be greatly superior to hempen ones, or iron chains, as regards safety, durability and economy. The plan upon which they are made effectually secures them from corrosion in the interior, as well as the exterior of the rope, and gives a greater compactness and elasticity than is found in any other manu-

Many of these ropes have been in constant operation in the different mines in England, and on the Biackwall and other inclined planes, for three and four years, and are still in good condition.

They have been applied to almost every purpose for which hempen ropes have been used—mines, heavy cranes, standing rigging, window cords, lightning conductors, signal halyards, tiller ropes, etc. Reference is made to the annexed statement for the relative strength and size. Testimonials from the most eminent engineers in England can be shown as to their efficiency, and any additional information required respecting the different descriptions and application will be given by

ALFRED L. KEMP,

75 Broad street, New York, sole agent in the United States.

Statement of Trial made at the Woolwich Royal Dock Yard, of the Patent Wire Ropes, as compared with Hempen Ropes and Iron Chains of the same strength.—October, 1841.

WIRE ROPES.					N ROPES.	ens lo	CHAINS,		STRENGTH	
Wire gauge number.	Circumference of rope.	Weight per	fathom.	Circumference of rope.	Weight per	fathom.	Weight per fathom.	Diameter of iron.	Tons.	
101 05 075 5 201 41 5 2	INCH.	LB4.	0z.	INCH.	LB8.	OZ.	LBs. 50	1NCH. 15-16	20	
13	10 3 - 34 (a b	8	3	81	16		27	11-16	131	
14	21	5	11	61	19	8	17	9-16 1-2	101	
16	21	charro 4. L	3	6	8	8.	101	7-16	striftui 7.01	

N.B. The working load, with a perpendicular lift, may be taken at 6 cwt. for every lb. weight per fathom, that a rope weighing 6 lbs. per fathom would safely lift 3360 lbs., and so on in proportion. 1y



ly10 near Third,

below Walnut, Philadelphia.

LAP-WELDED WROUGHT IRON TUBES

TUBULAR BOILERS.

FROM 1 1-4 TO 6 INCHES DIAMETER,

and

ANY LENGTH, NOT EXCEEDING 17 PEET.

These Tubes are of the same quality and manufacture as those so extensively used in England, Scotland, France and Germany, for Locomotive, Marine and other Steam Engine Boilers.

THOMAS PROSSER.

Patentee. 28 Platt street, New York.

RAILROAD IRON. MOUNT SAVAGE IRON WORKS

THIS Company are prepared to execute orders for RAILBOAD IRON, of any pattern, and equa in point of quality to any other manufactured.

Address

J. M. HOWE.

Pres't. Mt. Savage Iron Works Dec. 25, 1y* Maryland.

RAILROAD IRON.—THE "MONTOUR Iron Company," Danville, Pa., is prepared to execute orders for the heavy Rail Bars of any pattern now in use, in this country or in Europe, and equal in every respect in point of quality. Apply to MURDOCK, LEAVITT & CO.,

Pine St., New York.

RAHLWAY IRON.—DAVIS, BROOKS
& Co., No. 68 Broad Street, have now in port
on Ship-board, 200 Tons of the best English heavy
H Rails, 60 lbs. to the lineal yard, which they offer
for sale on favorable terms, also, about 6 to 700 Tons
now on the way, to arrive shortly, of the same description of Rail.

Nov. 16, 1846.

46tf

THOMAS PROSSER, 28 Platt St. N.Y. (See

Adv.)

J. F. WINSLOW, Albany Iron and Nail Works

Troy, N. Y. (See Adv.)

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den, Agent. (See Adv.)

ROGERS, KETCHUM & GROSVENOR, Patterson, N. J. (See Adv.)

S. VAIL, Speedwell Iron Works, near Morristown, N. J. (See Adv.)

NORRIS, BROTHERS, Philadelphia Pa. (See

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FRENCH & BAIRD, Philadelphia. (See Adv.)
NEWCASTLE MANUFACTURING COMPANY; Newcastle, Del. (See Adv.)
ROSS WINANS, Baltimore, Md.
CYRUS ALGER & Co., South Boston Iron Co.
SETH ADAMS, Engineer, South Boston.
STILLMAN, ALLEN & Co., N. Y.
JAS. P. ALLAIRE, N. Y.
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